



University of Toronto



rindale



ampus

Mississauga Ontario

Faculty of Arts and Science

Calendar 1973 - 1974

### **IMPORTANT NOTICES**

1. Students who have any problems of an academic or personal nature should consult their College Registrar.
2. The courses listed in this Calendar are those available to students of Erindale College and are subject to withdrawal or alteration without prior notice.
3. Fees, residence dues and other charges set forth in this Calendar are subject to change.

**Erindale College University of Toronto 1973-1974**

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## Important Academic Dates and Deadlines

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### 1973

April 19	Last date for return of applications for admission scholarships.
June 1	Last date for receipt of the following applications: <ul style="list-style-type: none"><li>— admission of new Regular Students to full-time studies.</li><li>— re-registration of former students not in attendance in the previous session.</li><li>— transfer from part-time to full-time studies.</li><li>— College transfers.</li></ul>
August 13–17	August examinations.
September 3	Labour Day (University closed).
September 12	Classes begin. The late registration penalty will be enforced.
October 5	No changes in full courses or in first term (F) or in (Y) half-courses may be made after this date.
October 8	Thanksgiving Day (Classes cancelled).
November 15	Last date to complete the following: <ul style="list-style-type: none"><li>— confirmation of programme by each student signing a list of his courses in the office of his College Registrar between October 30 and November 15.</li><li>— withdrawal from a first term (F) course without academic penalty.</li><li>— Third-Year students to notify their College Registrar if they wish to receive their degree.</li><li>— Fourth-Year students to indicate their choice of degree.</li></ul>
November 30	Fall Convocation.
December 11	First-term classes end. All term work should be completed by this date.
December 11–21	Examination period for F courses and term-tests.
December 22	Christmas holidays begin.

### 1974

January 2	Second-term instalment of fees due.
January 7	Second-term classes begin.
January 15	Final date for payment of tuition fees without penalty.
February 1	No second-term S course may be begun after this date.
February 15	Last date to withdraw from an extra course or an extra half-course (S) or (Y) or from the University without academic penalty, or for transfer to Extension.
February 18–22	Reading week — lectures and laboratory classes will not be held.
April 11	Classes end. All term assignments should be completed by this date.

April 12	Good Friday (University closed).
April 22–May 10	Annual examinations.
June 1	Last date to submit requests to transfer to full-time studies for 1974–75 session.
June 5	University Convocation begins.
July 10	Last date for students with supplemental privileges to apply to write the August examinations.

## Administrative Staff

### **University of Toronto**

<i>Chancellor</i>	Pauline M. McGibbon, O.C., B.A., LL.D.
<i>President</i>	John R. Evans, M.D., D.PHIL., LL.D., F.R.C.P. (C)
<i>Vice-President and Provost</i>	D. F. Forster, B.A., A.M.
<i>Vice-Provost</i>	P. P. M. Meincke, B.SC., M.A., PH.D.
<i>Director of Admissions</i>	W. Kent, M.A.
<i>Chief Librarian</i>	R. H. Blackburn, M.A., B.L.S., M.S., LL.D.
<i>Acting Director of University Extension</i>	E. M. Gruetzner, B.A.
<i>Principal, University College</i>	A. C. H. Hallett, B.A., PH.D.
<i>Dean, Faculty of Arts &amp; Science</i>	R. A. Greene, A.B., M.A., PH.D.
<i>Associate Dean</i>	Mrs. J. E. Foley, B.A., PH.D.
<i>Associate Dean</i>	G. A. B. Watson, M.A., S.T.D.
<i>Associate Dean</i>	J. E. Cruise, B.A., M.S., PH.D.
<i>Associate Dean and Secretary</i>	W. D. Foulds, B.A.

### **Erindale College**

<i>Principal</i>	J. T. Wilson, O.C., O.B.E., PH.D., SC.D., LL.D., P.R.S.C., F.R.S.
<i>Dean</i>	E. A. Robinson, PH.D., D.SC.
<i>Associate Dean</i>	W. J. Huggett, M.A., PH.D.
<i>Associate Dean</i>	I. M. Spigel, M.A., PH.D.
<i>Registrar</i>	J. J. Rae, M.A., PH.D.
<i>Associate Registrar</i>	L. J. Elmer, B.A., S.T.D.
<i>Librarian</i>	H. L. Smith, B.A., B.L.S.
<i>Comptroller</i>	T. Peckham, B.A., M.COM.
<i>Administrative Officer</i>	R. S. Rawlings, B.A.
<i>Superintendent—Physical Plant</i>	A. O. Miller
<i>Director of Physical Education</i>	J. D. Crichton, B.SC., DIP.ED.
<i>Director of Student Affairs</i>	M. J. Lavelle, B.A., M.A.
<i>Student Aid Officer</i>	Mrs. L. Webber
<i>Health Service</i>	E. G. Davies, B.SC., PHM.B., M.D., C.C.F.P. (C) R. P. Davis, M.B., M.B.CH.B., R.C.O.G. G. W. Tisdall, M.D., D.PSYCH., C.R.C.P. (C) P. D. Wardle, M.D., M.R.C.S., L.R.C.P.L. V. I. Degutis, REG.N.

## Erindale College Faculty

### ANTHROPOLOGY

Professor F. J. Melbye, B.A., M.A., PH.D.  
\*Professor A. Mohr, A.B., PH.D.  
Professor L. W. Reinhardt, B.F.A., M.A., PH.D.  
L. L. Sample, A.B., PH.D.  
Professor B. A. Sigmon, B.A., M.S., PH.D.  
Professor R. Vanderburgh, B.A., M.A.

### ASTRONOMY

Professor C. T. Bolton, B.S., M.S., PH.D.  
\*Professor J. R. Percy, B.SC., M.A., PH.D.  
Professor R. Racine, M.A., PH.D.

### BIOLOGY

#### *Botany*

\*Professor P. W. Ball, B.SC., PH.D.  
Professor W. G. Fillion, M.SC., PH.D.  
Professor R. A. Frost, B.SC., A.R.C.S., PH.D.  
Professor P. A. Horgen, B.A., M.S., PH.D.  
Professor P. W. Maycock, M.SC., PH.D.  
Professor P. V. Rangnekar, M.SC., PH.D.  
Professor G. R. Thaler, M.SC., PH.D.

#### *Microbiology*

\*Professor A. Guha, M.SC., PH.D.  
Professor J. Silver, B.S., PH.D.

#### *Zoology*

Professor W. T. Geiling, M.S., PH.D.  
Professor D. L. Gibo, B.A., PH.D.  
Professor G. K. Morris, B.S.A., M.A., PH.D.  
Professor D. H. O'Day, M.SC., PH.D.  
Professor P. J. Pointing, B.SC.F., PH.D.  
\*Professor B. I. Roots, B.SC., PH.D.  
Professor W. G. Sprules, B.SC., M.A., PH.D.  
Mr. R. Stephens, B.A.

### CHEMISTRY

Professor J. M. Deckers, L.SC., DR.SC.  
Professor M. Moskovits, B.SC., PH.D.  
Professor G. A. Ozin, B.SC., D.PHIL.  
\*Professor A. J. Poë, PH.D., D.I.C., D.SC.  
Mrs. J. C. Poë, M.SC., A.R.C.S., D.I.C.  
Professor J. J. Rae, M.A., PH.D.  
Professor E. A. Robinson, PH.D., D.SC.  
Professor I. W. J. Still, B.SC., PH.D.  
Professor M. A. Winnik, B.A., PH.D.

### CLASSICS

Professor R. L. Beck, M.A., PH.D.  
\*Professor T. G. Elliott, B.A., PH.D.  
Professor C. I. Reid, B.A., PH.D.

COMMERCE	<p>Professor W. E. Grasham, B.A.SC., M.A.          Professor H. McCandless, B.COM., C.A., M.B.A.          *Professor M. Sommers, B.COM., D.B.A.</p>
COMPUTER SCIENCE	<p>*Professor C. R. Crawford, M.A., PH.D.          Mr. J. Metzger, A.B., M.SC.</p>
DRAMA	<p>Mr. J. Astington, B.A., M.A.</p>
EARTH & PLANETARY SCIENCES	<p>Professor K. C. Burke (Geology), B.SC., PH.D.          Professor D. J. Dunlop (Physics), M.A., PH.D.          Professor D. H. Gorman (Geology), B.SC., PH.D.          *Professor H. C. Halls (Physics), M.SC., PH.D.          Mr. W. Kidd (Geology), B.A.          Professor J. B. Waterhouse (Geology), M.SC., PH.D.          Professor J. T. Wilson (Physics), O.C., O.B.E., PH.D.,          SC.D., LL.D., P.R.S.C., F.R.S.</p>
ECONOMICS	<p>Professor A. Donner, B.A., M.A., PH.D.          Professor W. T. Easterbrook, M.A., PH.D., LL.D., F.R.S.C.          Professor S. M. Eddie, B.S., PH.D.          Professor J. Floyd, B.COM., M.A., PH.D.          Professor M. A. Fuss, B.SC., M.A., PH.D.          *Professor M. J. Hare, B.COM.          Professor J. A. Hynes, A.B.          Professor A. M. Kruger, B.A., PH.D.          Professor G. F. McGuigan, M.A.SC., SOC.D.          Professor J. Pesando, B.A., M.A., PH.D.          Professor S. A. Rea, A.B., PH.D.</p>
ENGLISH	<p>Professor T. H. Adamowski, M.A., PH.D.          Mr. J. Astington, B.A., M.A.          Professor B. Corman, A.M., PH.D.          Professor V. A. De Luca, M.A., PH.D.          Professor D. B. Hill, M.A., PH.D.          Mr. U. Kareda, B.A., M.A.          Professor D. I. Lancashire, M.A., PH.D.          Mr. M. Levene, B.A., M.A.          Mr. R. R. McLeod, A.B., M.A.          Professor R. Rower, M.A., PH.D.          Professor J. Skvorecky, PH.D.          *Professor R. W. Van Fossen, M.A., PH.D.</p>
FINE ART	<p>L. Eleen, B.A., M.A., PH.D.</p>
FRENCH	<p>Mrs. K. Bourlier, B.A., M.A.</p>

Mrs. G. Chesneau, L. ÈS L., C.A.P.E.S., D.E.S.  
 Professor C. Cloutier-Wojciechowska, L. ÈS L., D.E.S.,  
 D. DE L'U.

Mrs. M. Ducretet, L.P.H.L., AGREG.

Professor P. R. Findlay, M.A., PH.D.

Mrs. J. Le Gall, B.A., M.A.

Mrs. M. Raine, B.A., M.A.

Professor A. Stein, M.A., PH.D.

Professor D. A. Trott, M.A., PH.D.

\*Professor H. H. Weinberg, M.A., PH.D.

## GEOGRAPHY

Professor H. F. Andrews, B.A., M.SC., D.PHIL.

Professor A. R. Byrne, B.A., M.A., PH.D.

Mr. P. Duckworth, B.A., M.A.

Mr. G. H. K. Gad, DR.PHIL.

Professor G. Gracie, B.A.SC., PH.D.

\*Professor W. Harrison, S.B., S.M., PH.D.

Mr. C. J. Houston, B.A., M.A.

Mr. T. F. McIlwraith, B.A., M.A.

Professor J. C. Munday, A.B., PH.D.

Professor D. F. Putnam, B.S.A., PH.D.

## GEOLOGY

Professor K. Burke, B.SC., PH.D.

Professor D. H. Gorman, B.SC., PH.D.

Mr. W. Kidd, B.A.

Professor J. B. Waterhouse, M.SC., PH.D.

## GERMAN

Mr. W. Bauer, M.A.

\*Professor W. Meyer-Erlach, B.A., PH.D.

Professor J. P. Payne, M.A.

## HISTORY

Mr. M. Dafoe, B.A., M.A.

\*Professor A. C. Gluek, B.A., M.A., PH.D.

Mr. R. E. Johnson, B.A.

Professor C. La Vigna, B.A., PH.D.

Professor D. P. Morton, M.A., PH.D.

Professor D. L. Raby, B.A., PH.D.

Professor W. B. White, A.B., M.S., PH.D.

## ITALIAN

Mrs. P. Marchese, B.A., M.A., PHIL.M.

\*Professor G. F. Mazzotta, B.A., M.A., PH.D.

Mr. L. McCormick, B.A., A.M.

## MATHEMATICS

Professor D. F. Andrews, M.SC., PH.D.

Professor T. Bloom, B.SC., M.A., PH.D.



Professor C. R. Crawford, M.A., PH.D.  
 Professor P. H. H. Fantham, M.A., D.PHIL.  
 Professor V. Jurdjevic, M.S., PH.D.  
 Professor W. Lakin, M.S., PH.D.  
 Professor J. LeBel, M.A., PH.D.  
 Professor M. Mather, B.A., PH.D.  
 Professor F. D. Tall, A.B., PH.D.  
 \*Professor S. M. Trott, B.SC., M.A., PH.D.

## MUSIC

\*Ms. G. G. Jones, B.A., M.A., PH.D.

## PHILOSOPHY

Professor J. V. Canfield, M.A., PH.D.  
 Professor C. E. Cassin, M.A., PH.D.  
 Professor C. H. Chastain, B.A., M.A.  
 \*Professor W. J. Huggett, M.A., PH.D.  
 Professor A. Rosenthal, M.A., PH.D.  
 Professor M. Schiller, B.A., PH.D.  
 Mr. A. I. F. Urquhart, M.A.

## PHYSICS

Professor R. F. Code, B.SC., A.M., PH.D.  
 Professor D. J. Dunlop, M.A., PH.D.  
 Professor H. C. Halls, M.SC., PH.D.  
 Mr. R. G. Johnson, B.A., M.S., PH.D.  
 Professor P. P. M. Meincke, B.SC., M.A., PH.D.  
 Professor G. Stegeman, B.A.SC., M.SC., PH.D.  
 \*Professor H. W. Taylor, B.SC., M.SC., PH.D., F.INST.P.  
 Professor S. H. Vosko, B.ENG.PHYS., M.SC., PH.D.  
 Professor J. T. Wilson, O.C., O.B.E., PH.D., SC.D., LL.D.,  
     P.R.S.C., F.R.S.  
 Professor S. S. M. Wong, M.S., PH.D.

## POLITICAL SCIENCE

Professor J. Barros, M.I.A., PH.D.  
 Professor R. B. Day, M.A., PH.D.  
 Professor R. A. Fenn, B.A., M.SC., PH.D.  
 Professor R. Gregor, B.A., M.A., PH.D.  
 Professor A. A. Kontos, M.A., PH.D.  
 \*Professor B. Kovrig, M.A., PH.D.  
 Professor S. A. Lakoff, M.A., PH.D.  
 Professor F. W. Peers, B.A., B.ED., M.A.  
 Mr. I. Scott, B.SC., M.A.  
 Professor D. V. Smiley, M.ED., M.A., PH.D.  
 Professor J. E. Smith, A.B., PH.D.  
 Professor P. H. Solomon, M.A.

## PSYCHOLOGY

Professor T. M. Alloway, M.A., PH.D.  
 Professor K. Blankstein, B.A., M.A., PH.D.  
 Professor C. M. Corter, B.A., PH.D.  
 \*Professor F. I. M. Craik, B.SC., PH.D.  
 Professor L. Krames, M.A., PH.D.  
 Professor M. Moscovitch, B.SC., M.A., PH.D.  
 Professor P. Pliner, B.S., PH.D.  
 Professor R. M. Rosenbaum, B.A., M.A., PH.D.  
 Professor I. M. Spiegel, M.A., PH.D.

RELIGIOUS  
STUDIES

\*Professor L. J. Elmer, B.A., S.T.B., S.T.D.  
 Mr. M. Lavelle, B.A., M.A.  
 Mr. L. Schmidt, B.A., M.A.

SLAVIC LANGUAGES  
& LITERATURE

Mr. K. Lantz, B.A., M.A.  
 \*Professor N. N. Shneidman, M.P.H.E., M.A., PH.D.

## SOCIOLOGY

Professor A. M. Bennett, M.A.  
 Professor H. J. Breslauer, M.A., M.PHIL.  
 Professor L. Felt, B.A., PH.D.  
 \*Professor W. Kalbach, M.A., PH.D.  
 Professor J. B. Kervin, B.A., PH.D.  
 Professor P. Lorion, B.A., M.A., PH.D.  
 Mr. A. T. R. Powell, M.A.  
 Professor M. Spencer, A.B., M.A., PH.D.

## SPANISH

Professor O. Hegyi, M.A., PH.D.  
 Professor E. G. Neglia, M.A., PH.D.  
 \*Professor M. Scarth, B.A., M.A.  
 Professor J. Webster, M.A., PH.D.

## SURVEY SCIENCE

\*Professor G. Gracie, B.A.SC., PH.D.  
 Professor R. C. Gunn, B.A.SC., M.A.SC., M.SC.

ARTIST-IN-  
RESIDENCE

David Blackwood, B.A.

FILM-MAKER-IN-  
RESIDENCE

Noel Moore

WRITER-IN-  
RESIDENCE

David Godfrey, M.F.A., PH.D.

\*Faculty Adviser.



## Principal's Message



Erindale College provides a large and peaceful campus with a country atmosphere for about 2500 full-time students at the University of Toronto. Although only twenty miles west of the centre of Toronto, the college grounds include a handsome park, open fields and woods along the valley of the Credit River which provide a home for a variety of birds and wildlife. This is a happy environment for a college and particularly invites field studies in the natural sciences.

The main buildings which have been under construction for the past several years will be completed in the spring of 1973 and will provide the College with a full range of modern facilities including library, laboratories, a computer terminal, bookstore, gymnasias,

and a wide variety of the usual amenities. Forty students are now living on the campus, but residences for 250 more are under construction and should be open in September 1973.

Besides the usual courses in Arts and Sciences several experimental courses are available. These include a course in Communications which makes use of computers, film and television. Courses in the History of Art are offered in conjunction with a studio course at Sheridan College. Courses in Surveying Science and remote sensing, unique in Ontario, are being offered together with other studies of the environment. Courses in Commerce and Music have been added recently. An Artist-in-Residence, a Musician-in-Residence, a Writer-in-Residence, a Film-Maker-in-Residence and a Dramatist work informally with students and encourage them in these endeavours and in independent work.

Students, besides having their own organizations, social centre, newspaper and internal radio, take an active part in the Erindale College Council and some have been elected chairmen of its committees. Several groups on the campus have successfully completed Opportunities for Youth Projects with government support. Because the number of students and staff on the campus is growing rapidly four smaller units to preserve the cordial and easy exchanges between people which have so far marked life at Erindale are being formed this summer. Each will have its own common rooms and offices for a dean and registrar. One will be for part-time students and the other three will be for full-time undergraduates and staff.

## **General Information**

Erindale College, one of the eight Colleges that constitute the Faculty of Arts & Science in the University of Toronto, opened in September 1967, as the western campus of the University of Toronto. The College offers the Arts and Science Programme of the University of Toronto and students may qualify for the B.A. or the B.Sc. in either a three or a four year programme. The admission regulations are those of the University of Toronto.

Erindale College is located twenty miles west of the Toronto City Hall in the town of Mississauga. It may be reached by taking the Queen Elizabeth Highway, or Highway 5, or the Macdonald Cartier Freeway (401) to Mississauga Road. (See the map on back cover.)

A bus service is provided for staff and students between the College and the Islington-Bloor Subway Station, the Clarkson GO Station and the St. George campus (Convocation Hall).

Full-time day students wishing information about the College should address: The Registrar, Erindale College, Mississauga, Ontario; Tel. 828-5231 or 828-5331. (Area code 416.) Part-time students should call 828-5244.

### **Counselling**

Every effort is made to provide students with both general and specialized counselling in all areas of personal concern, i.e. academic, medical, psychiatric, financial, placement and vocational.

The Office of the Registrar is the place for general counselling and advice on day to day queries or problems.

In areas where specialized assistance is needed the Registrar's Office will refer the student to the appropriate service. Prospective students are urged to obtain academic counselling, course selection assistance, etc. from the Registrar's Office or Faculty Advisers during the summer months.

### **Library**

Erindale College Library has an excellent and ever-growing collection of books, periodicals, film strips, cassettes, clippings and other materials now numbering 134,000 items. The Library is housed in a new building and staffed with people trained to help the student use the Library's resources.

In addition to the College Library, students and faculty have access to the more than two million volumes of the University of Toronto Library on the St. George campus. There is a regular book delivery service from the University of Toronto to the Erindale campus.

### **University Health Service**

The University Health Service offers a partial but comprehensive medical service for students on the Erindale campus throughout the academic year for treatment and

advice. Students are encouraged to discuss their concerns relative to contraception, drug problems, unwanted pregnancies, sexual life and venereal disease. An Infirmary service (October 1 to May 15) is available as is extensive treatment and care for athletic injuries.

Psychiatric consultation and counselling to assist the students with emotional and social problems are readily available.

The primary responsibility of the Health Service is to the student, therefore, all consultations medical and psychiatric are strictly confidential and form no part of any "University Record." Any information acquired in contacts with a student will not be given to anyone at any time without the express written permission of the student.

### **Athletic Requirements**

Physical examination is recommended for those taking part in competitive body contact sports.

### **Health Service Hours**

Monday to Friday	9:00–5:00 p.m.	Telephone 828-5255
After 5:00 p.m. and weekends		279-1700
		279-1660

### **Student Activities**

The students at Erindale publish a paper called the *Erindalian* and operate a radio station called *Radio Erindale*. A serious literary magazine is published at intervals called *Impulse*. New students are encouraged to assist in the successful operation of the above projects. There are also Language Clubs and Interest Clubs (Camera Club, Chess Club, etc.) which are well supported by the students.

### **Athletics and Recreation**

The Erindale College Athletic and Recreation Association (E.C.A.R.A.) offers a great variety of athletic and recreational activities related to student interest.

The 1973–74 academic year will see the opening of the new athletic wing of the main building. Included in this area will be a large gymnasium capable of accommodating such sports as basketball, volleyball, tennis, badminton and lacrosse. In addition there will be a large training room, three squash courts, two teaching studios and men's and women's showers and lockers.

In addition to the facilities, clubs, etc., on the Erindale campus, all full-time students may use those on the St. George campus and participate in its athletic and recreational programmes. At present, Erindale College has teams competing in the University of Toronto Interfaculty league and against other universities and colleges in: basketball, ice hockey, lacrosse, soccer, volleyball, curling, field hockey, judo, karate and tennis.



E.C.A.R.A. likewise organizes an extensive intramural programme of men's and women's sports and offers instruction in various recreational skills.

### **Residences**

Erindale College will offer residence accommodation for up to 290 students in the fall of 1973.

Townhouse style residences make it possible for students to share living expenses on a co-op basis, contributing a certain amount of money per week. Students have estimated they can save up to \$200 per year by cooking their own meals. Each unit also governs itself cooperatively.

Four-person units have four single study bedrooms, plus living room, kitchen and living areas. Six-person units are made up of two double study bedrooms and two single study bedrooms, plus the same communal kitchen and living areas. All units have laundry facilities. Residences are just a few minutes' walk from the library, classrooms, and cafeterias where students can buy meals when they wish.

Costs are approximately \$630 per year, September to May, for a single; approximately \$580 per year, double.

For further information contact the Housing Office, Erindale Campus, University of Toronto, Mississauga, Ontario.

### **Third Year Study Elsewhere**

Information concerning this programme can be obtained from the St. George Calendar for 1973-74 and from Mrs. Linda Webber, Student Aid Officer, Erindale College, Telephone 828-5234. Chairman of Committee on Study Elsewhere is Professor J. R. Webster, Erindale College.

### **Audio-visual Equipment**

Audio-visual equipment, including cameras and portable video tape recorders, cassette tape recorders, film splicers and editors, are available to students to assist them in their work. Workshops are provided to assist students in the use of this equipment.

### **Foreign Students**

The University of Toronto, International Centre (I.S.C.) is anxious to be of service to foreign students. Pre-departure advice, information on arrival, accommodation, cost of living, financial aid, employment, food, health requirements, insurance, etc., is readily available. Foreign students are encouraged to write: International Student Centre, 33 St. George Street, Toronto, Ontario, Canada M5S 1A1.

## **Erindale College – Sheridan College Combined Art Education Programme**

This is the first co-operative University and Community College programme in Ontario.

A main objective is to provide students with the academic background and the practical training necessary for teachers of art in Ontario schools. In planning the programme, however, it was kept in mind that not all students might choose teaching as their career. For these the programme provides an excellent education and training for further studies in art, or for careers in galleries, museums and even in private practice.

Students must meet the admission requirements of Erindale College, which include a complete grade XIII standing, as well as those of Sheridan College, which include an acceptable portfolio of art work.

To obtain a B.A. degree at Erindale, 15 credits are required, 5 of these credits may be acquired through the studio courses offered at Sheridan. This programme provides the practical experience which is so essential to the development of artistic abilities.

Bus transportation between the two colleges is provided.

For course descriptions see Fine Art under Subjects and Courses.

## **Survey Science Programme**

In recent years, man has become acutely aware of the environment around him, particularly in connection with such disturbing aspects as pollution, overpopulation and depletion of natural resources. What has been taken for granted for ages is now recognized as a finite environmental system which must be properly managed in order to sustain life and promote orderly development of civilization.

Environmental management embraces many of the physical, biological and social disciplines into which knowledge is divided. One of the key disciplines of the environmental group is survey science, the science of measuring and representing the geometrical and physical features of our environment.

Survey science itself is a multi-discipline body of knowledge which includes such technical subjects as geodesy, photogrammetry, remote sensing and cartography, as well as the procedures that have been traditionally characterized as "surveying". Survey science also includes survey law, particularly the principles of law which pertain to the location and establishment of land boundaries, to land registration, and to the transfer of land ownership.

Survey science is a quantitative discipline, in which the processes of measurement, mathematical modelling, numerical computation, data manipulation and data analysis play essential roles. Accordingly, survey science often employs highly sophisticated instrumentation and procedures which draw heavily upon the basic disciplines of mathematics, physics and computer science.

Survey science relates strongly to other environmental disciplines, such as geology, geophysics and geography, and it is also closely aligned with civil engineering and with urban and regional planning.

Details of courses offered will be found under Survey Science in section on Subjects and Courses.

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## **Admission Requirements**

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Full details of the University of Toronto undergraduate admission requirements for 1974 are contained in the Undergraduate Admission Handbook 1974–75 available on request from the Office of Admissions, University of Toronto, Toronto, Ontario, M5S 1A3, and in all Ontario secondary schools. The 1973 requirements follow.

Admission requirements for all three campuses of the University of Toronto are the same.

The University of Toronto's entrance requirements, effective in 1973, are outlined on the pages following. Recently there have been significant curriculum developments in some secondary schools (individual timetabling, the credit system, etc.) and in consequence the University of Toronto has arranged for more flexible subject requirements. It should be emphasized, however, that students in schools which are organized on the more structured, traditional pattern may, if they wish, continue to plan their grade 13 programmes as at present. In either case it is left to the school to determine what constitutes an appropriate grade 13 programme.

For 1973 the University of Toronto is not publishing a list of acceptable subjects, but does give advice about subjects considered of major importance.

### **Basis of Admission**

Entrance to the First Year of the undergraduate courses is offered, depending upon the number of places available, to candidates from Ontario secondary schools who demonstrate good standing, based upon the following evidence:

1. Completion of secondary school studies, including a *full programme of academic work at the grade 13 level*.
2. A recommendation by the secondary school last attended regarding probable success in University studies.
3. A complete academic report for the three final years of secondary school.
4. Results of standardized tests offered by the Service for Admission to College and University (S.A.C.U.).

### **Recommended Principles of Subject Selection**

1. Throughout the secondary school years students should study in as many of the following areas as possible: English, French and other languages, mathematics, sciences, social studies. Students should also consider carefully what aspects of their projected university work will entail prerequisite studies.
2. A full grade 13 programme should normally include work in a variety of subjects.
3. Subjects recently introduced into the grade 13 curriculum will be recognized by the University, which continues, however, to place a high value on previously recognized subjects involving study over a period of years and such subjects should normally constitute the major part of a grade 13 programme presented for admission.



4. Candidates are advised to include in their grade 13 programme at least two of: English, French or another language, mathematics, science.
5. Each faculty regards certain grade 13 subjects as necessary preparation and these are listed in Sections 4 and 5 of the Undergraduate Admission Handbook 1973-74.

### **Notes for Students**

1. No minimum mark or percentage is prescribed for admission to the University, but because of the pressure of applications and the nature of the University courses it is likely that a student will require a school average above 60% in order to be considered for selection.
2. The University of Toronto does not specify the minimum number of years to be spent in secondary school. If a school's organization permits certain students to complete their studies to the end of grade 13 in fewer than five years, applications will be welcomed from those students. The University does not accept applications from students at the end of their grade 12 work.
3. If a student takes more than five years to complete his studies to the end of grade 13, the University expects correspondingly higher standing: extenuating circumstances are considered if reported by the school.
4. Applications are considered from students whose credentials do not comply with the entrance requirements of the University, but, as fully qualified applicants outnumber the entrance places annually available, such students are expected to offer evidence of exceptional attainments to compensate for entrance deficiencies.
5. Candidates from educational jurisdictions outside Ontario should present a subject pattern which generally conforms with this announcement and in addition specifically prepares them for their own universities. They may improve their competitive position by taking the aptitude and applicable achievement tests offered by the Service for Admission to College and University or the aptitude test offered by the College Entrance Examination Board. For information they should write to the Service for Admission to College and University, 151 Slater St., Ottawa, Canada, K1P 5N1, or to the College Entrance Examination Board, Box 592, Princeton, New Jersey, 08540, U.S.A.

### **Application Procedures**

Candidates currently in Ontario Grade 13 should apply through their high school using the General Application Form.

Other candidates should write to the Office of Admissions for a questionnaire which they will be invited to fill out for preliminary consideration.

### **Final Date for Submitting Applications**

June 1. Only in circumstances which the Committee on Admissions deems



exceptional will a late application be considered. For further information, consult the current Undergraduate Admission Handbook.

### **Mature Students (Non-Matriculants)**

An applicant who is at least 23 years of age, but who has never attempted an Ontario Grade 13 programme, or its equivalent, and who has been a resident of Ontario for at least one year, will be considered for admission to the Faculty of Arts and Science upon the completion with high standing of one of the pre U courses offered by the Div. of U. Extension. Persons wishing to apply as mature candidates should consult the Office of Admissions about their eligibility before undertaking one of the Pre-University Courses since successful completion of a Pre-University Course does not in itself ensure selection.

### **Admission to Advanced Standing**

An undergraduate of another university or of another faculty in this University may be admitted to advanced standing on such conditions as may be prescribed and must apply to the Office of Admissions before June 1. Advanced standing credit is awarded to students who at another university or faculty have taken work which is equivalent in content to work which would have been taken had they been enrolled in this Faculty. Each application is considered individually in terms of the student's previous record and the courses offered in the Faculty.

An applicant for admission to advanced standing must submit, with his application for admission, the Ontario Grade 13 certificate or equivalent; and an official transcript of his record in the university or faculty from which he wishes to transfer, showing the specific courses which he has completed with his standing in each.

### **Application for Admission and Registration**

Students currently in Grade 13 apply for admission to the University of Toronto on *Application Forms* provided by the Secondary Schools. If the application is accepted a *Letter of Admission* is sent to the student. Forms for course selection and information on registration procedures follow during the summer. The final step in Registration is the payment of fees (see Fees). On presenting the *Fees Receipt* at the Registrar's Office a *Student Identification Card* will be issued. This completes registration and may be done anytime up to September 9th. To avoid line-ups and long delays the student is urged to complete all aspects of registration considerably before this date.

Students not currently in Grade 13 fill out application forms provided by the *Office of Admissions*. Applications for full-time studies must be returned to the Office of Admissions before June 1st. The subsequent procedures are the same as those described above.

Students who wish to be granted credit for courses taken at other Universities (Advanced Standing) should indicate this clearly on their application forms.

## Registration

Every student in full-time attendance proceeding to a degree in the Faculty of Arts and Science is required to register in one of University College, Victoria College, Trinity College, St. Michael's College, New College, Innis College, Scarborough College, Erindale College unless proceeding towards a degree in the Division of University Extension. Information regarding the relation of the Colleges to the University will be found under the heading "The Faculty of Arts and Science and Its Colleges."

*Registration information will be mailed to each student early in the Summer.* A student registers for his programme of studies in the Faculty of Arts and Science through the Registrar of his College. A full-time Special Student registers through the Associate Secretary of the Faculty.

A student seeking detailed information about a specific course, or programme of studies, should consult the Adviser or Undergraduate Secretary of the Department in which the course or programme is offered.

Students who are registering in the Faculty for the first time or registering again in First Year must bring their letter of admission at the time of registration.

When registering, all students are asked to give their Social Insurance Number.

The registration copy of all fees forms received at the Office of the Comptroller by mail will be sent to the College Registrar concerned prior to the day of registration. If necessary, a student may bring his fees and fees form, together with his cheque for fees and/or his Ontario Student Award Programme statement of award, in person to the Office of the Comptroller. If this is done during or just before the Registration period, then the student will have to bring the receipted registration copy to the College Registrar's Office in order to register.

### **Late Registration**

No student may register and enrol late except by petition. The Council may refuse permission to register late. The late penalty will be enforced, and every petition for late registration and enrolment must be accompanied by the late registration fee. Petitions for the refund of this fee must be submitted by October 6, with a receipt indicating the amount paid.

### **Change of Course**

Students who wish to make a change in their programme after registration must consult their College Registrar. All requests other than those for (S) courses should be made as early in the session as possible, preferably before October 5th. Those submitted after that date will be granted only in the most exceptional circumstances. No second-term course may be begun after February 1st.

### **Confirmation of Programme**

All full-time students must confirm their choice of courses between October 30th and November 15th and verify the address to which statements of final results are to be mailed by signing their programme in the office of their College Registrar.

This procedure is essential in order to ensure accurate records and so that examination arrangements may be made. Third- and Fourth-year students must indicate their choice of degree. Regular students confirm their programmes at the office of their College Registrar; full-time Special Students only at the office of the Secretary of the Faculty.

### **Withdrawal**

A student who wishes to withdraw from a course or from his entire programme of studies during the session must do so through his College Registrar. This must be done prior to November 15, if the course is offered only in the First Term, or prior to February 15 in all other cases, or he will be considered to have failed.

The College Registrar is unable to authorize any refund of fees until he receives from the student written confirmation of his intention to withdraw and the registration card.

### **Special Students**

A candidate for admission as a Special Student (one not proceeding to a degree in this Faculty) must apply to the Director of Admissions, Simcoe Hall, University of Toronto for forms of application for admission and return them before August 1st for the Winter Session commencing in September. He should apply for day classes only if intending to register in a full-time programme of five courses. Part-time Special Students (i.e., those taking three or fewer courses in a session) will register in the Division of University Extension but may be given permission to take one or more courses in day classes.

Each application for admission is considered individually in terms of the student's previous academic record. Transcripts of record from other universities or faculties will therefore be required.

Regular and Special Students who have previously registered and obtained standing in the Faculty of Arts and Science must submit a request for registration as a Special Student each session to the Secretary of the Faculty, Sidney Smith Hall, 100 St. George Street, Toronto M5S 1A1.

Unless clearing a condition, courses taken as a Special Student may not be credited towards a degree offered by this Faculty. Students taking courses for credit or admission elsewhere are advised to consult the institution concerned before registering. Registration instructions will be sent to applicants on admission.

Special Students must obtain standing in any course in which they are enrolled, before they may enrol in an advanced course in the same subject.

Special Students who do not write the annual examinations, or who withdraw from a First-term course after November 15 or from any other course after February 15, except for medical or similar reasons (for which proof must be submitted), will be considered to have failed to obtain standing in the course. Special Students will not be permitted to write supplemental examinations.



## **Schedule of Fees**

### **Fees**

Prior to registration each student newly admitted to the Faculty and each returning student will be sent a fees form and a schedule of fees stating the academic and incidental fees required, the date due, and the method of payment. Fees vary slightly by college and from year to year, and are subject to change by the Governing Council. The approximate cost for a student in Arts and Science is \$630 annually for tuition and incidental fees such as student organizations, athletic, and health services. Residence fees are separate and generally approximate \$1000 per year for room and board.

For further information concerning fees, students should contact the Fees Department, Office of the Comptroller, 215 Huron Street, Second Floor, University of Toronto, Toronto M5S 1A1. (Telephone 928-2142) Students of the federated colleges (Victoria, Trinity, St. Michael's) should contact their college bursar. Information regarding residences will be sent on request to the residence concerned or to the Office of the Director of Administrative Services, Simcoe Hall, University of Toronto.

Each Special Student enrolled in the Faculty of Arts and Science is required to pay fees at the office of the Comptroller, St. George campus, according to a schedule to be set.

### **Application Fee**

Each applicant who is not in full-time attendance at a Canadian secondary school or who has not previously registered at this University is required to pay an application fee of ten dollars (\$10) when submitting his application form to the Office of Admissions, Simcoe Hall, University of Toronto.

### **Transcripts**

Transcripts of academic record are furnished by the Faculty Office on payment of a fee of one dollar (\$1) each. For each additional copy ordered at the same time, the fee is fifty cents (50¢).

### **Other Fees**

#### **Study Elsewhere**

Each student authorized to participate in the Study Elsewhere programme must pay a fee of one hundred dollars (\$100) to the Comptroller and present his receipt to his College Registrar prior to departure.

#### **Outside Centre Fee**

Each student who applies to write an examination outside Toronto must submit with his application a fee of ten dollars (\$10) plus five dollars (\$5) for each additional paper to be written at the same outside centre.

**Special Examination Fee**

Each student who is granted permission to write a special examination must pay to the Comptroller a fee of ten dollars (\$10).

**Supplemental Examination Fee**

Each student who is permitted to write a supplemental examination must pay at the time of his application a fee of ten dollars (\$10) for one paper plus five dollars (\$5) for each additional paper.

**Fee for Re-checking Marks**

A student who requests that his marks be re-checked must submit with his petition a fee of five dollars (\$5), which will be refunded if an error is found.

**Penalties**

Students are urged to consult frequently the Schedule of Dates printed at the beginning of this Calendar as this sets forth the dates by which certain administrative action is required or penalties may be incurred. These charges are as follows:

**Paying by Instalments**

Each student who pays his fees in two instalments (September and January) must pay an instalment charge of twelve dollars (\$12).

**Late Registration Fee**

Each student who registers after the last date for normal registration must pay a late registration fee of ten dollars (\$10); for each day thereafter the fee is an additional one dollar (\$1).

**Late Confirmation of Programme**

A student who fails to confirm his academic programme in person with his College Registrar in November by the date appointed must pay a late fee as follows:

- If confirming within 7 calendar days — \$10
- If confirming after 7 calendar days — \$20.

**Late Payment of Second Instalment**

A student who pays the balance of his fees after the Second Instalment is due incurs a penalty of fifteen dollars (\$15).

**Outstanding Fees and Charges**

Students who have not paid their fees or residence dues in full or who have outstanding library dues or bookstore accounts by the end of the session will not be permitted further registration in the University, will not have transcripts issued on their behalf, and will not receive their diploma (if in their graduating year) until payment is made.

**Deductions from Fees**

- 1) *Scholarships*: A student may apply to his fees any scholarship awarded by the University of Toronto or by Erindale College.
- 2) *Ontario Student Awards (OSAP)*: A student may use the loan portion of his OSAP award to pay his first term fees. To do this he must produce his Student Award Statement and enclose it with his fees form. Students who have not made early application for OSAP and have not received the result of their application will be required to pay cash.

*Payment of the Second Instalment of Fees by OSAP Grant Cheque*: Students will not be fined for late payment of fees if the delay in payment is due to the late arrival of the Grant cheque. However, if the Grant is *less* than the second term fees, then the student must pay the difference.

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## Scholarships and Financial Assistance

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### **Types of Financial Aid offered to full time students:**

*Scholarships or Prizes:* Awarded for academic excellence without reference to financial need. (Note: The J. R. Webster Prize in Spanish and the V. M. Mott History Book Prize are available to both full-time and part-time students.)

*Bursaries:* Awarded to students who demonstrate both good academic standing and financial need.

*Interest-free Loans:* Provided to students who have financial need. Loans are repayable according to definite loan agreements.

Erindale College students, as members of the University of Toronto, are eligible for awards offered by the Province of Ontario, the University of Toronto, and Erindale College.

### **Costs of University Education**

In the year 1972-73, total cost to first year students (for the 8-month academic session only) varied from \$2,000 to \$2,500 for students living in a university residence or away from home, and from \$1,300 to \$1,500 for students living at home in the Toronto area. The total amount includes fees and an allowance of approximately \$500 for miscellaneous expenses such as books, supplies, laundry, cleaning, clothing and transportation.

### **Ontario Student Awards Programme**

The Ontario Student Awards Programme (OSAP) should be regarded as the primary source of financial assistance for needy Ontario students. Other assistance such as bursary assistance is available only in small amounts to students who do not qualify for Ontario Student Awards or who have received OSAP assistance which is insufficient to meet their needs.

OSAP is intended to supplement rather than replace private resources. In order to determine the additional funds required, the Province assesses the resources of the family and/or the student. An Ontario Student Award is part loan (interest-free until six months after ceasing full-time study at the university) and part non-repayable grant. In 1972-73 awards have ranged from as little as \$50 to as much as \$2,000 depending upon assessed need. A description of the regulations is contained in a brochure available early in May, 1973 from the Registrar's Office or the Student Aid Office, Erindale College.

Application forms may be obtained early in May, 1973 from the Office of Student Awards, Simcoe Hall, University of Toronto or the Registrar's Office, Erindale College. They must be returned to the Office of Student Awards, Simcoe Hall, University of Toronto, *preferably in person. Students are urged to apply early in the summer.* Late applicants may have to wait more than two months for assessment of their applications and receipt of their awards. For the final date of application, please see the 1973-74 OSAP Brochure.



### **Canada Student Loans Plan**

Full details of this Plan are available in a brochure issued each spring by the Government of Canada. Basically the Plan is designed for those students who have resided in Canada for twelve months and demonstrate financial need, but who do not qualify for assistance under the Ontario Student Awards Programme. The maximum Canada Student Loan is \$1,400 per academic year. The application form for the Ontario Student Awards Programme is also used for the Canada Student Loans Plan.

Application forms and brochures are available from the University of Toronto, Office of Student Awards, and should be submitted, preferably in person, to the Office of Student Awards, Simcoe Hall.

Students who intend to study outside Ontario or abroad and who will not be registered at the University of Toronto should apply through the Ministry of Colleges and Universities, Mowat Block, Queen's Park, Toronto, Ontario.

Students who in Third Year intend to register at the University of Toronto and to study elsewhere should apply to the Office of Student Awards, Simcoe Hall, University of Toronto.

### **ADMISSION SCHOLARSHIPS**

#### **1) University of Toronto Admission Scholarships**

Students entering the first year at Erindale College who have achieved high academic standing at their high schools are eligible for a large number of scholarships awarded by the Academic Affairs Committee of the Governing Council of the University of Toronto. The scholarships are listed in the booklet, *University of Toronto Admission Awards, 1973-74*, available at any Ontario high school.

Application forms available: High School Principal or Guidance Officer; deadline April 19, 1973.

#### **2) Erindale College Admission Scholarships**

Students entering the first year at Erindale College who have achieved high academic standing at their high schools are eligible for the following scholarships awarded by the Council of Erindale College. Apply on the University of Toronto Admission Scholarship application form available at your High School; deadline April 19, 1973.

#### **Erindale College Special Admission Scholarships**

Awarded from funds allocated by the Academic Affairs Committee of the Governing Council of the University of Toronto. The number, value and terms of award for these scholarships will be determined by the Erindale College Council.

Application forms available: High School Principal or Guidance Officer; deadline April 19, 1973.



### **Erindale College Varsity Fund Admission Scholarships**

Three admission scholarships awarded annually. Value: \$350.

Application forms available: High School Principal or Guidance Officer; deadline April 19, 1973.

## **IN-COURSE SCHOLARSHIPS AND AWARDS**

### **1) University of Toronto Scholarships**

Students in second, third or fourth year who achieved high academic standing (Grade A) in the preceding year are eligible to apply.

Application forms available: Erindale College Student Aid Office after registration; deadline October 15, 1973.

### **2) Erindale College Scholarships**

Students who achieved high academic standing in either first, second or third year and who will be enrolling in the next year at Erindale College are eligible. All students who achieve high standing will be considered automatically. Application not required.

### **The Governor General's Silver Medal**

Awarded each year to the graduating student with the highest marks.

Application not required.

### **Mississauga University Women's Club Scholarship**

Awarded to the student graduating with the highest standing in Year Four.

Value: \$250. Application not required.

### **Varsity Fund In-Course Scholarships**

Three are awarded in each of the second, third and fourth years.

Value: \$500. Application not required.

### **Mississauga University Women's Club Book Prize**

Awarded to the woman student enrolled in the first year who obtains the highest standing in the final examinations of that year.

Value: \$50. Application not required.

### **Progressive Conservative Women's Association (Peel South) Award**

Awarded to a student entering third year who is specializing in Political Science.

Value: \$200. Application not required.

### **The Mrs. Lois Spigel Book Prize**

Gift of Dean I. M. Spigel, in memory of Mrs. Lois Spigel, awarded to a student in second, third or fourth year who is specializing in Social Sciences.

Value: \$50. Application not required.

### **Prize in Hellenistic History**

Gift of the Chreston-Macedonian Foundation, awarded to the student with highest standing in a second year Greek and Roman History course.

Value: \$150. Application not required.

### **Prize in Italian**

Gift of the Italian Club of Erindale College (1971), awarded to the student who achieves the highest standing in the Introduction to Italian Literature Course and who enrolls in at least two full courses, or their equivalent, in Italian at Erindale College.

Value: \$50. Application not required.

### **Prize in Slavic Literature**

Gift of the Chreston-Macedonian Foundation, awarded to the student having the highest standing in a course or courses in Slavic literature.

Value: \$150. Application not required.

### **The J. R. Webster Prize in Spanish**

Gift of Professor J. R. Webster, awarded to the student (either full-time or part-time) who having completed Spanish 100 at Erindale College achieves the highest standing in second year in the Spanish Intermediate Grammar and Composition Course.

Value: \$100. Application not required.

### **V. M. Mott History Book Prize**

To be awarded to the student, either full-time or part-time, specializing in History who achieves the highest over-all average in History at the end of the Third Year having taken:

- 1) in the case of full-time students, at least two full History courses in the Third Year at Erindale, and
- 2) in the case of part-time students, two full History courses over two years of study at Erindale College with a majority of their courses having been taken at Erindale.

Value: \$50. Application not required.

### **I.O.D.E. Patricia Nodwell Award**

Gift of the Imperial Order Daughters of the Empire, Windsor Rose Chapter, in memory of Mrs. Patricia Nodwell, awarded to a student in second, third or fourth year who has taken in the preceding year and is taking in the current year, courses in any two of the following subjects: English, History, Philosophy, or Psychology. The candidate must have obtained at least a Grade B standing in the previous year's work. Financial need may be a consideration.

Value: \$150.

Application forms available: Erindale College Student Aid Office after registration; deadline October 15, 1973.

### **Erindale College Special Scholarships**

Awarded to students in second, third or fourth year who achieved high academic standing in the preceding year at Erindale College. The number and value of the scholarships will be determined by the Erindale College Council.

Application not required.

### **3) Other Scholarships and Prizes**

Many other scholarships and prizes from a variety of sources are available to Erindale College students. Details of these are displayed on the Notice Board outside the Student Aid Office.

## **BURSARIES**

### **1) University of Toronto In-Course Bursaries**

Students in second, third or fourth year who are in financial need and who have achieved a good academic record (at least B) in the preceding year are eligible to apply.

Application forms available: Erindale College Student Aid Office after registration; deadline October 15, 1973.

### **2) Erindale College Bursaries**

#### **Mississauga University Women's Club Award**

Awarded to a mature woman student enrolled in any year, whose studies have been interrupted and who has financial need.

Value: \$300 (May be sub-divided)

Application forms available: Erindale College Student Aid Office after registration; deadline October 15, 1973.

#### **Chreston-Macedonian Bursaries**

Gifts of Mr. C. S. Chreston, awarded to students in real financial need who are making satisfactory academic progress.

Value: \$150.

Application forms available: Erindale College Student Aid Office; deadline January 15, 1974.

## **Courses, Subjects and Academic Programmes**

A **SUBJECT** is a particular discipline such as *English, Chemistry, Philosophy* or *Psychology*. A **COURSE** is a unit in the academic programme such as *Chemistry 120E* (CHM 120E), *History 100* (HIS 100) or *Sociology 101* (SOC 101). The word **PROGRAMME** refers *either* to the collection of courses taken by the individual student *or* to a particular group of courses that constitute a *Specialist Programme*.

The University of Toronto, Faculty of Arts and Science, St. George Campus Calendar should be referred to for details of the Rules and Regulations of the Faculty. Questions concerning the content and scope of particular courses or subjects, and the requirements for *Specialization* should be made to the relevant *Faculty Advisers* or to the College Registrar.

No attempt is made in the Arts and Science Faculty to distinguish between Honour and General Courses. These terms are no longer used in the University of Toronto.

A student entering the Faculty of Arts and Science has a free choice from among all the courses offered to first year students. Thus he does not need to make an irreversible decision to be in *Arts* or *Science* or to follow a three or a four year course of study. These difficult decisions can now be made at various points of a student's progress through the University in terms of new and developing interests and levels of achievement.

A three-year (15 course) programme, or a four-year (20 course) programme can be made up of courses selected in terms of a wide breadth of interest or relatively narrow interest according to the student's choice. Particular combinations of courses are designated as *Specialist Programmes*. Required courses for a particular specialization are laid down by specific disciplines whose faculty advisers should be consulted for further information. A student is allowed to fulfill the requirements for specialization in *one* or *two* subjects.

It should be noted that the flexibility of choice now available to students does not prevent a student with definite aims and developed interests from following them from the start. It is hoped that even students with determined ideas will take the opportunity offered to explore unfamiliar areas of knowledge.

All new students are urged to seek advice from the Registrar or a Faculty Adviser before final selection of a programme of studies.

### **Availability of Courses to Other Years**

"100 series" courses are available to students in all years. No more than a total of seven can be taken in a three-year programme.

Certain "200 series" and "300 series" courses are available to first year students. Such courses are designated by the Roman numeral I, which appears below the course number. It is inadvisable for a student in first year to take more than *one* such course.

If a student anticipates the possibility of *Specialization* in a particular area in his higher years he should select at least one course in this subject in his first year.

In years other than the first students may wish to choose programmes which will allow them to specialize in a particular discipline; they may combine two areas

(e.g. Sociology and Psychology) or they may select a set of courses that will allow them to generalize in an area, e.g. science, humanities or social sciences. Students are urged to consult Faculty Advisers who can advise them concerning courses that would best fit their aims and which related courses they should take.

**Time-Tables**

Time tables will be ready well in advance of Registration and will be mailed to all students who have accepted offers of admission or registered by mail.

*The courses listed in this calendar are subject to revision or withdrawal if necessary. Several courses have been given new numbers. A student may not enrol in and get credit for the same course twice, even if it has a different number. Any two half courses may be combined to form a full course credit.*



## Groups of Related Courses

In addition to specializing in the traditional academic disciplines, students may be interested in concentrating on a range of courses which crosses the boundaries of specific disciplines. Some such groupings of courses are presented below. Further combinations to meet particular purposes and interests are of course possible, and students are invited to consult with members of the staff regarding their interests.

### **Canadian Studies**

ANT 241E	Indians of North America
ANT 304ES	Approaches to the Study of Canadian Indian Societies
COM 423	Canadian Business Taxation
COM 426E	Canadian Management and its Environment
ECO 202E	Macro-Economic Theory
ECO 221E	North American Economic History and Development
ECO 252ES	International Economic Problems
ECO 261E	Contemporary Canadian Economic Issues
ECO 361EF	Labour Economics and Labour Relations
ENG 152	Canadian Literature in English
ENG 354	Canadian Poetry
ENG 356	Canadian Fiction
FRE 330	The Literature of French Canada to 1959
FRE 332	The Literature of French Canada from 1960 to the Present
GGR 241	Urban Canada
GGR 315E	Resource Development Problems
GGR 351E	Historical Geography of Northeastern North America
GGR 471E	Environmental Case Studies
HIS 205E	Canada 1663-1967
HIS 301E	Canadian Parties and Politics since 1867
HIS 307E	Canadian History from Contemporary Issues
HIS 313	Canadian Labour and the Left
HIS 364	Canada and War, 1867-1967
PHL 213S	The University and Canadian Society
POL 100	Introduction to Canadian Politics
POL 323	Topics in Canadian Politics
POL 411F	Canadian Federalism
POL 413S	Provincial and Local Government
SOC 303	Canadian Society
SOC 309	Mass Communications in Canadian Society

### **The Common Market**

ECO 201E	Modern European Economic History
ECO 328	International Economics and Policy
HIS 100E	Europe and the World, 1789-1969

- HIS 303E International Relations, 1870–1960  
 HIS 305E Industrialization and Ideological Response  
 POL 302S Politics and Government of Western Europe

### **Communications**

- ANT 205E Technology, Society and Culture  
 CMM 220ES Communications I  
 CMM 330E Deviance, Stigma and Communication  
 LIN 200 Introduction to General Linguistics  
 PHL 282S Language and Communication  
 PHL 283S The Analysis of Propaganda  
 PSY 365ES Social Psychology: Inter-personal Behaviour  
 REL 375E Communication and Religious Consciousness  
 SOC 309 Mass Communications in Canadian Society

### **Comparative Literature** (in translation)

- GLL 200 Greek Drama in Translation  
 GLL 202S The Ancient Novel  
 GER 201 German Literature in English Translation  
 LTR 193 The Realistic Novel  
 SLA 210 Nineteenth Century Russian Literature  
 SLA 211 Masterworks of Russian Literature in Translation  
 SLA 310 Twentieth Century Russian Literature  
 SLA 312 Tolstoy and Dostoevsky

### **East European Studies**

- ECO 262E Comparative Economic Systems  
 ECO 364EF The Economy of the U.S.S.R. I  
 ECO 365ES The Economy of the U.S.S.R. II  
 HIS 206E Russia—Survey  
 HIS 310E The Russian Revolution  
 POL 202 The State and Economic Life  
 POL 204 Soviet Government and Politics  
 POL 329S Marxism-Leninism  
 POL 414S Politics and Government of Communist East Europe  
 POL 422 Dynamics of Soviet Politics  
 SLA 100E Introduction to Slavic Culture and Literature  
 SLA 316 Literature and Politics in the Soviet Union

### **Environmental Studies**

- BIO 130E Man and the Environment  
 BIO 230E Ecology

BIO 330E	Plant Ecology
BIO 332E	Freshwater Biology
BIO 430E	World Ecosystems
BIO 431E	Theoretical Ecology
BIO 432E	Applied Ecology
ECO 260ES	The Economics of Environmental Deterioration
GGR 171E	Man-Environment Interactions
GGR 271E	Methods of Environmental Analysis
GGR 311E	Conservation Strategies
GGR 377EF	Computer Analysis of Environmental Data
GGR 379EF	Man-Environment Strategies
GGR 471E	Environmental Case Studies
EPS 240ES	Earth Processes and Man's Environment
SOC 328ES	Environmental Sociology

### **International Relations**

ECO 328	International Economics and Policy
HIS 303E	International Relations 1870-1960
HIS 309E	The Foreign Policy of the United States
POL 208	International Relations
POL 327	Comparative Foreign Policy
POL 328	International Organization
POL 415	Seminar in International Politics
POL 416	Problems of International Law and Relations
SPA 395	The Spanish Civil War

### **Nineteenth Century Studies**

ENG 207	Nineteenth-Century English Literature
ENG 308	Romantic Poetry and Prose
ENG 324	Fiction, 1832-1900
ENG 368	Victorian Prose
FRE 364	Prose Fiction from 1800 to 1900
GER 321	Nineteenth Century Prose and Poetry
HIS 306E	19th Century Britain
PHL 347F	Nineteenth Century Philosophy
SLA 210	Nineteenth Century Russian Literature

### **Third World Studies**

ECO 324	Economic Development
ECO 366E	Agriculture and Economic Growth: Theory, History, Policy
ECO 368EF	Economics of Poverty
GGR 315E	Resource Development Problems



HIS 101E	The Emergence of the Third World
HIS 304E	Social Revolution in Latin America: Mexico, Bolivia, and Cuba
POL 304	Politics of the Third World
SPA 192	Latin American Civilization and Culture

**Urban Studies**

GGR 241E	Urban Canada
GGR 340E	Concepts, Methods and Values in Urban Studies
GGR 341EF	Images of the City
GGR 345ES	The City in History
GGR 346ES	The Urban Planning Process
SOC 205	Urban Sociology
SOC 340E	Concepts, Methods and Values in Urban Studies

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## **Professional Faculties and College of Education**

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Students enrolled at Erindale College may satisfy the entrance requirements to the College of Education, Teacher's College and other Professional Faculties of the University.

### **Faculty of Education**

For Type A certification the requirements are a B.A. or B.Sc. from an Ontario University in a four year programme with a minimum of twenty full courses.

For one specialist field the student requires B standing in nine courses; for double specialization the student requires B standing with no fewer than six courses in each and a total of fourteen courses in both fields of specialization.

For further information students should write to the Registrar of the College of Education, Toronto.

### **Teacher's Colleges**

For admission to Teacher's College a B.A., B.Sc., or an equivalent degree is required in the fall of 1973.

### **Medicine**

Students at Erindale College may qualify for entry to the Faculty of Medicine (and other Medical Schools). For the University of Toronto Faculty of Medicine entry is possible after two years, or after completion of a three or four year degree. The minimum requirements are given below and students are warned that competition for places is acute and therefore they should select a programme of studies in first and second year that leads to as many future opportunities as possible.

Two years with high standing required for selection. Courses should include: CHM 120E, PHY 110, BIO 100E, MAT 135 or MAT 110EF/S and MAT 120ES/F, and one optional course. In Second Year CHM 240E now replaces CHM 240EF and CHM 230ES (1972-73 Calendar) as the only requirement.

### **Rehabilitation Medicine**

For entry into Rehabilitation Medicine (Physical and Occupational Therapy) two sciences are required, one of which must be Biology; two social sciences, one of which must be Psychology and one other option must be chosen in the First Year.

### **Dentistry**

For entry to the Faculty of Dentistry completion of one year is required. High standing is important for selection. Courses taken should include: CHM 120E, PHY 110, BIO 100E and two additional courses one of which must be Mathematics.

### **Pharmacy**

For entry to the Faculty of Pharmacy completion of one year is required with high

standing needed for selection. Courses taken should include: CHM 120E, PHY 110, BIO 100E, MAT 110EF/S and MAT 120ES/F.

Students normally enter Second Year Pharmacy with advanced standing but may be required to accept as a condition a first year Pharmacy course.

### **Law**

A minimum of two years with high standing is required for selection. No courses are prescribed but emphasis should be placed on subjects such as Economics, Political Science, History, Philosophy and Psychology.

## Degree Courses in Extension

A large variety of courses is offered in the Division of University Extension at Erindale College in the Summer Evening Session, the Summer Day Session and the Winter Session. Students are required to apply for admission to the Director of Admissions, University of Toronto. Students in the Division of University Extension should get a copy of the booklet "Degree Programmes in Extension" which contains the rules and regulations governing part-time students.

### **Counselling**

The Erindale Extension Office (828-5244) and faculty members at Erindale are prepared at any time to counsel part-time students. There is also a full-time counselling service available at the Extension Office, St. George Campus. The courses that are planned to be offered at Erindale are listed below.

### **Fees**

The academic fee for each full course is \$115.00 and \$57.50 for each half course. In addition there are small additional fees charged by the Part-Time Student's Association.

### **Programme for Summer Evening Session 1973 — Erindale**

<i>Course</i>	<i>Evening</i>	<i>Time</i>	<i>Instructor</i>
COM 100	Mon. & Wed.	7:00-9:30	TBA
ECO 100	Tues. & Thurs.	7:00-9:30	TBA
ECO 202E	Tues. & Thurs.	7:00-9:30	A. Donner
GGR 253E	Mon. & Wed.	7:00-9:30	A. R. Byrne
GGR 361E	Tues. & Thurs.	7:00-9:30	D. F. Putnam
GER 100	Tues. & Thurs.	7:00-9:30	TBA
GER 109E	Tues. & Thurs.	7:00-9:30	W. Meyer-Erlach
GER 130	Tues. & Thurs.	7:00-9:30	TBA
MAT 135E	Mon. & Wed.	7:00-9:30	J. E. LeBel
PHL 100	Tues. & Thurs.	7:00-9:30	TBA
PHL 243F	Tues. & Thurs.	7:00-9:30	W. J. Huggett
PHL 244S	Tues. & Thurs.	7:00-9:30	W. J. Huggett
POL 100	Mon. & Wed.	7:00-9:30	D. V. Smiley
PSY 100	Tues. & Thurs.	7:00-9:30	TBA
PSY 209EF	Mon. & Wed.	7:00-9:30	M. Moscovitch
REL 203	Mon. & Wed.	7:00-9:30	M. Lavelle
SOC 201	Tues. & Thurs.	7:00-9:30	R. W. Burnside
SOC 212	Mon. & Wed.	7:00-9:30	TBA
SOC 312EF	Mon. & Wed.	7:00-9:30	W. E. Kalbach
SOC 329ES	Mon. & Wed.	7:00-9:30	TBA

**Note:** Summer Evening classes meet twice weekly for 2½-hour sessions from May 14th to August 10th. Classes begin at 7:00 p.m.

- Apr. 1      Last day for applications—New students
- May 1      Last day for registration
- May 14     Lectures and labs begin
- June 22    Last day of classes for "F" half courses
- July 3      Lectures and labs begin in "S" half courses
- Aug. 10    Last day of classes
- Aug. 13-17 Examinations

**Programme for Summer Day Session 1973 — Erindale**

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
ANT 100E	9:00–11:00	F. J. Melbye
ANT 230E	11:30–1:30	F. J. Melbye
AST 100	9:00–12:00	TBA
BIO 240E	9:00–11:00	W. G. Filion
CSC 108Y	9:00–10:00	TBA
ENG 212	11:30–1:30	V. A. DeLuca
ENG 348	9:00–11:00	R. Rower
FAR 145EY	9:00–12:00	TBA
FAR 146EY	1:00–4:00	TBA
FAR 147EY	9:00–12:00	TBA
FAR 148EY	1:00–4:00	TBA
FRE 271	11:30–1:30	TBA
GER 410	9:00–11:00	TBA
GGR 311E	11:30–1:30	J. C. Munday
MAT 110EF	11:30–1:30	W. B. Lakin
MAT 120ES	11:30–1:30	W. B. Lakin
PSY 100	9:00–11:00	I. M. Spigel
PSY 204EF	9:00–11:00	K. R. Blankstein
PSY 206EF	11:30–1:30	P. Langford
PSY 218EF	9:00–11:00	T. M. Alloway
PSY 326ES	9:00–11:00	K. R. Blankstein
PSY 350EF	11:30–1:30	F. I. M. Craik
PSY 362EF	11:30–1:30	L. Krames
PSY 373ES	9:00–11:00	T. M. Alloway
PSY 378ES	11:30–1:30	P. Langford
PSY 380EF	9:00–11:00	C. Corter
REL 250EF	11:30–1:30	L. J. Elmer
REL 265ES	11:30–1:30	S. A. Nigosian
SOC 101	9:00–11:00	M. H. Cooper
SOC 205	9:00–11:00	TBA
SOC 213E	11:30–1:30	TBA
SPA 100E	9:00–11:00	J. Webster

**Note:** Summer Day classes meet for 2-hour sessions, 5 days weekly from July 3rd to August 10th.

May 14      Last day for application—New students  
 June 17      Last day for registration  
 July 3       Lectures and labs begin  
 July 20      Last day for “F” half courses  
 Aug. 10      Last day of classes  
 Aug. 13–17   Examinations

**Programme for Winter Evening Session, 1973–74 Academic Year — Erindale**

<i>Course</i>	<i>Evening</i>	<i>Time</i>	<i>Instructor</i>
ANT 100E	Thursday	7:00–9:00	TBA
ANT 204E	Monday	7:00–9:00	W. Weissleder
ANT 225E	Tuesday	7:00–9:00	W. M. Hurley/TBA



<i>Course</i>	<i>Evening</i>	<i>Time</i>	<i>Instructor</i>
ANT 334E	Thursday	7:00-9:00	F. J. Melbye
*BIO 435EF	Tuesday	7:00-10:00	G. R. Thaler
COM 221F	Monday	7:00-9:00	TBA
COM 222S	Monday	7:00-9:00	TBA
CSC 108F	†Tuesday	7:00-9:00	TBA
CSC 118S	†Tuesday	7:00-9:00	TBA
ECO 100	Wednesday	7:00-9:00	M. J. Hare
ECO 202E	Tuesday	7:00-9:00	J. E. Floyd
ENG 108	Thursday	7:00-9:00	TBA
ENG 152	Monday	7:00-9:00	M. J. Levene
ENG 306	Wednesday	7:00-9:00	B. Corman
*ENG 338	Friday	5:00-7:00	U. Kareda
ENG 351	Tuesday	7:00-9:00	T. H. Adamowski
FAR 200	Wednesday	7:00-9:00	L. Eleen
FRE 120	Thursday	7:00-9:30	TBA
*FRE 332	Tuesday	4:00-6:00	C. Cloutier- Wojciechowska
*FRE 372	Wednesday	5:00-7:00	M. P. Ducretet
GER 100	Monday	7:00-9:00	TBA
GER 109E	Monday	7:00-9:00	W. Meyer-Erlach
GER 130	Monday	7:00-9:00	TBA
GER 231E	Wednesday	7:00-9:00	TBA
GGR 213E	Thursday	7:00-9:00	P. Duckworth
GGR 351E	Wednesday	7:00-9:00	T. F. McIlwraith
GGR 363E	Thursday	7:00-9:00	C. J. Houston
GRH 100	Wednesday	7:00-9:00	T. G. Elliott
*GRH 218	Monday	7:00-9:00	R. L. Beck
*HIS 203E	Wednesday	7:00-9:00	D. Raby
HIS 205E	Tuesday	7:00-9:00	D. P. Morton
*HIS 303E	Thursday	5:00-7:00	M. Dafoe
HIS 306E	Wednesday	7:00-9:00	M. Dafoe
*HIS 313	Thursday	5:00-7:00	D. P. Morton
ITA 201E	Thursday	7:00-9:00	L. T. McCormick
MAT 135	Monday	7:00-9:00	TBA
PHL 100	Wednesday	7:00-9:00	TBA
PHL 240F	Thursday	7:00-9:00	TBA
PHL 241S	Thursday	7:00-9:00	TBA
POL 204	Monday	7:00-9:00	R. B. Day
POL 208	Wednesday	7:00-9:00	R. Gregor
PSY 100	Tuesday	7:00-9:00	F. I. M. Craik/ T. M. Alloway
PSY 203EF	Monday	7:00-9:00	P. Pliner/ R. Rosenbaum
PSY 208EF	Tuesday	7:00-9:00	I. M. Spigel
PSY 213EF	Wednesday	7:00-9:00	L. Krames
PSY 216ES	Tuesday	7:00-9:00	I. M. Spigel
PSY 218EF	Tuesday	7:00-9:00	T. M. Alloway
PSY 326ES	Monday	7:00-9:00	K. R. Blankstein
PSY 351ES	Tuesday	7:00-9:00	F. I. M. Craik
PSY 362ES	Wednesday	7:00-9:00	L. Krames
PSY 368EF	Tuesday	7:00-9:00	C. Corter
PSY 370EF	Monday	7:00-9:00	TBA
REL 100	Tuesday	7:00-9:00	S. A. Nigosian

<i>Course</i>	<i>Evening</i>	<i>Time</i>	<i>Instructor</i>
REL 250E	Monday	7:00-9:00	L. J. Elmer
REL 360	Thursday	7:00-9:00	S. A. Nigosian
SLA 110E	Wednesday	7:00-9:00	TBA
SLA 211	Tuesday	7:00-9:00	TBA
SOC 101	Monday	7:00-9:00	M. H. Cooper
SOC 201	Tuesday	7:00-9:00	TBA
SOC 213	Monday	7:00-9:00	J. B. Kervin
SOC 311	Thursday	7:00-9:00	M. Spencer
*SOC 427E	Wednesday	7:00-9:00	A. Bennett
SPA 100E	Tuesday	7:00-9:00	TBA
SPA 192	Thursday	7:00-9:00	E. Neglia
*SPA 420EF	Wednesday	7:00-9:00	J. R. Webster
STA 232	Thursday	7:00-9:00	J. E. Lebel
SUR 210E	Tuesday	6:00-10:00	R. C. Gunn
*SUR 310E	Thursday	7:00-9:00	TBA

**Note:** \*The asterisked courses are day courses which will be held in the evening or late afternoon hours.

†Another hour will be announced later.

Classes meet once a week for the academic year from 7:00-9:00 p.m.

Dates for these courses correspond to those for the academic session 1973-74 as in this Calendar. The last day for registration is August 1, 1973.

The following is a list of courses proposed to be offered in coming years in some disciplines at Erindale. A more complete list will be available from the Extension Office at Erindale during the year.

<i>Summer 1974</i>	<i>Fall/Winter 1974-75</i>	<i>Summer 1975</i>
FRE 371	GGR 171E	GGR 213E
GGR 241E	GGR 253E	GGR 3XXE
GGR 318E	GGR 3XXEF	GGR 351E
GGR 373E	GGR 333ES	PHL 100
PHL 100	PHL 100	PHL 240F
PHL 346EF	PHL 243F	PHL 241S
PHL 348ES	PHL 244S	
HIS 303E	SPA 220E	

In addition to the courses listed in the Calendar a variety of upper year courses in many disciplines will be offered during the late afternoon hours so that they will be available to some Extension students during the 1973/74 Fall and Winter session. Please consult the Erindale Calendar or call the Extension Office at 828-5244 for further information.

Applicants for part-time studies in the Winter Session or a Summer Session (day or evening) as Regular or Special Students should consult the calendar entitled "Degree Programmes in Extension" available from the Office of the Director of University Extension, Toronto or at the Extension Office, Erindale. Registration instructions will be sent to those admitted to each session.

Part-time students may take courses in both the day and evening sessions during the fall/winter terms. Correspondingly full-time students may take courses in both day and evening sessions.

## **Requirements for Standing**

### **Please read this section carefully**

Each student in full-time attendance in the Faculty of Arts and Science devises his own programme by combining together each year five full courses chosen to fit his interests, subject only to the following:

- (a) All stated pre-requisite and co-requisite requirements shall be satisfied.
- (b) Any two half courses are equivalent to one full course; they may be from different subjects .
- (c) An extra full or half-course (not for credit towards a degree) may also be taken in each year, and standing obtained will be recorded.

### **First Year Programme**

A student shall be said to have completed a First Year Programme when he has obtained standing in five courses. The courses taken will normally be those designated as being available to First Year students but other courses may be taken with the permission of the department concerned.

A student may not continue in full-time attendance unless he has standing in at least four courses.

### **Second Year Programme**

A student shall be said to have completed a Second Year programme when he has obtained standing in ten courses, at least three of which must be 200- or higher-series courses.

A student in Second Year may not continue in full-time attendance unless he has standing in at least nine courses.

### **Third Year Programme and Requirements for Three-Year Degree**

A student shall be said to have completed a Third Year programme and shall be entitled to receive a Bachelor of Arts or Bachelor of Science degree when he has:

- (a) obtained standing in fifteen courses at least eight of which must be 200- or higher-series courses;
- (b) a final mark of 60% or better in each of at least eight of the fifteen courses. Of these eight at least four must be 200- or higher-series courses;
- (c) for a Bachelor of Science degree, included in the eight or more required 200- or higher-series courses at least six courses offered by one or more of the following departments: Astronomy, Botany, Chemistry, Computer Science, Geography,\* Geology, Mathematics, Physics, Psychology, Zoology or certain courses offered by other departments (e.g. ANT).

**Note:** A Third Year student may not continue in full-time attendance until he has completed the requirements for a three-year degree. A student should notify his College Registrar no later than November 15th if he wishes to receive his degree.

\*For a list of acceptable courses, consult the Department of Geography.

When it is conferred, the designation “Bachelor of Arts (Three-Year)” or “Bachelor of Science (Three-Year)” will appear on his academic record.

#### **Entry into a Fourth Year Programme**

A student shall be permitted to enter a Fourth Year programme only if he has completed the requirements for a bachelor’s degree as described above.

#### **Fourth Year Programme and Requirements for a Four-Year Degree**

- (a) A student shall be said to have completed a Fourth Year programme and shall be entitled to have the designation “Bachelor of Arts (Four-Year)” or “Bachelor of Science (Four-Year)” entered on his record when he has:
- (i) qualified for a 15-course degree;
  - (ii) at the first six attempts completed an additional five courses, no more than one of which may be a 100-series course;
  - (iii) obtained a final mark of 60% or better in each of at least four of the five courses;
  - (iv) for a Bachelor of Science degree, included in the twelve or more required 200- or higher-series courses at least nine courses offered by one or more of the following departments: Astronomy, Botany, Chemistry, Computer Science, Geography\*, Geology, Mathematics, Physics, Psychology, Zoology or certain courses offered by other departments.
- (b) For the degree of Bachelor of Commerce a student must have:
- (i) qualified for a 15-course degree;
  - (ii) obtained standing in twenty-three courses as prescribed in the notes below and as outlined for the Programme in Commerce and Finance;
  - (iii) obtained a final mark of 60% or better in each of at least four of the six courses in his fourth year and in at least seventeen of the twenty-three courses in his four-year programme.

**Notes:** The twenty-three courses must include at least seven courses in Commerce, at least seven courses in Economics, and at least four courses in other than Commerce or Economics two or more of which must be taken in second or later years.

The required Commerce courses include Financial Accounting, Managerial Accounting, Information Systems & Control, and Corporation Finance.

The required Economics courses include Introductory Economics, Microeconomic Theory, Macroeconomic Theory, Statistics, Economic History (or History of Economic Thought) and one advanced course with an analytical emphasis.

The required courses in other than Commerce or Economics must include a course in Mathematics (calculus).

\*For a list of acceptable courses, consult the Department of Geography.



A sixth course taken in first year will not count as one of the twenty-three courses required in the Programme.

In each of the second, third and fourth years six courses must be taken through the first and second terms.

No more than eight 100-series courses can be taken in the four year programme.

### **Probation, Suspension and Refusal of Further Registration in the Faculty**

1. A student will be placed *on probation* if:

- (a) he fails two or more courses in any session, or
- (b) at the end of any session (Winter or Summer) including or subsequent to that in which the fourth course is attempted he has obtained a grade of C (or higher) in fewer than 50% of his course attempts since beginning studies leading to the degree. Under these circumstances he will be warned that he must (re-)gain the required 50% of C's by the end of the next comparable academic session.

2. A student will be *suspended* from the Faculty for *one* calendar year if:

- (a) while on probation he fails two or more courses, or
- (b) he does not (re-)gain the required 50% of C's within the specified period on probation.

3. A student will be *suspended* from the Faculty for *three* calendar years if:

- (a) he fails six courses
- (b) he fails to satisfy the requirements for a three-year degree in his first twenty attempts
- (c) while on probation a second time he
  - (i) fails two or more courses, or
  - (ii) does not regain the required 50% of C's
- (d) after return from a one-year suspension he
  - (i) fails two or more courses in any session, or
  - (ii) fails to recover the required 50% of C's by the end of the session, or, in the case where that is impossible, fails to obtain a C (or higher) in any course attempted until such time as the 50% requirement has been satisfied.

4. A student who wishes to return to studies in the Faculty after having incurred a three-year suspension may, after the period of suspension has expired, enrol in any one session in two courses which he has not previously attempted. If he obtains an average grade of B in the two courses, and not less than C in either, he will retain credit for these and for all courses in which he was previously successful and he may re-enrol to complete the remaining courses required for the degree on the condition that he records no failures. A failure in a course after return from a three-year suspension or failure to obtain the specified level



of performance in the first two courses attempted after such a suspension will result in refusal of further registration in the Faculty.

5. A Special Student whose record is unsatisfactory may be refused further registration in the Faculty.

### **General Regulations for Standing**

- (a) All students admitted to the eight Colleges of the Faculty will normally be expected to take a full programme of studies (five courses) in the winter day session of each year. With the approval of the College concerned and the Faculty exceptions may be made.
- (b) (i) A student may withdraw from the Faculty without academic penalty up to February 15th. However, if he withdraws in the Second Term, credit will be retained for any First Term half-courses completed and failure noted for any First-Term half-courses failed.
- (ii) If exceptional circumstances warrant it a student may be permitted, on petition, to withdraw from not more than one course (or two half-courses) of his programme without academic penalty.
- (iii) A student may withdraw without academic penalty and without petition from an extra first term half-course before November 10th and from an extra full course or an extra half (S or Y) course before February 15th.
- (c) A student who wishes to enrol in three or fewer courses in any session may be admitted to the Division of University Extension. Such a student will normally enrol in winter evening courses or summer day or evening courses, but may, with the permission of the Department concerned and of the Division of University Extension, also enrol in winter day courses. He may take a maximum of three courses in a winter session and two in summer session. Students may transfer from full-time attendance to the Division of University Extension before February 15th.
- (d) Normally, credit towards a degree will not be given for an extra (sixth) course.

### **Standing in a Course**

The following scale of marks and grades will be used for all courses and half-courses in all years:

Marks	Grade
80% – 100%	A
70% – 79%	B
60% – 69%	C
50% – 59%	D
below 50%	Fail

In addition to the above, a final average of B+ (77–79%) may be awarded.

No grade will be awarded in a 100-series course in which standing is obtained by successfully writing a supplemental examination after failure at the first examination. In such cases “credit” will be recorded on the transcript as well as the final mark.

In the case of half-courses, standing must normally be obtained in each half-course attempted. Marks in two half-courses may not be averaged to produce standing in an equivalent whole course, except where the department(s) concerned specify beforehand that this will be permitted for particular and stated combinations of two half-courses.

The method of arriving at a final mark for each 200- or higher-series course (or half-course) will be decided by the Department offering the course. The final mark in the 100-series courses will normally be made up of a term mark and an examination mark with the restriction that not less than one-third nor more than two-thirds of the final mark will be based on term work. Final examinations will normally be held in 100-series courses and requests for exemption of courses from this regulation shall be brought before the Council.

#### **Aegrotat Consideration**

If the ability of a student to complete a course is affected by illness or domestic problems occurring after November 20 (First-term courses) or February 15 (Second-term and full courses), a petition may be made through his College Registrar for consideration by the Faculty. If there are adequate grounds for the petition, the Department concerned will determine the status of the work done by the student and the steps, if any, that he must take in order to complete the course.

Such petitions must be filed on or before the last day of the relevant final examination period, together with a medical certificate which includes a statement that the candidate was examined at the time of the illness, or other evidence to support the petition.

## **Examinations**

### **Attendance and Examinations**

Students proceeding to the degree are required to attend the courses of instruction and the examinations in all subjects prescribed. A student whose attendance at lectures or laboratories or whose work is deemed by the Council of the Faculty to be unsatisfactory, may have his registration cancelled at any time by the Council.

No candidate will be admitted to examinations unless the Head of his College certifies that he has complied with all the requirements of the College.

Students may not rewrite an examination in a course in which they have standing.

### **The Annual Examinations**

The annual examinations are held in late April and early May; final examinations in first-term courses are held in December.

Arrangements may be made to enable eligible candidates to write supplemental examinations in one of the following places: Banff, Calgary, Charlottetown, Edmonton, Fredericton, Halifax, Kapuskasing, Kenora, Kingston, Kirkland Lake, London, Montreal, North Bay, Ottawa, Quebec, Regina, Saskatoon, Sault Ste. Marie, St. John's (Nfld.), Sudbury, Thunder Bay, Vancouver, Whitehorse, Windsor, Winnipeg, and London, England. Applications for such arrangements must be made not later than November 20, accompanied by the required supplemental examination fee and the special fee.

Candidates for the annual examinations at outside centres must notify the Secretary of the Faculty before April 1st if they do *not* wish to write one or more of the examinations for which they applied; otherwise the fee will be forfeited.

### **The August Examinations**

The August examinations are held in the week following the conclusion of summer session classes. They are open to students enrolled in the Summer Session (evening and day) and to students eligible to write supplemental or deferred examinations.

Candidates who are permitted to write supplemental or deferred examinations must submit a completed printed form of application to the Secretary of the Faculty by July 10. After this date an additional fee of one dollar per day to a maximum penalty of \$20 must be paid. No application will be accepted after July 31. They may write these examinations at the places listed above as outside centres. Such candidates must make application for this privilege before July 10 and must pay the special fee.

Candidates for the August examinations at outside centres must notify the Secretary of the Faculty before August 1 if they do *not* wish to write one or more of the subjects for which they applied; otherwise the fee will be forfeited.

### **Failed Fall Course**

If a student fails a fall course, he may take the same course in the spring or a different spring course, and the best 5 full courses will be averaged. The same applies

to a student who passed a fall course but did not do well and wishes to raise his average. In both cases the fall course mark will appear on his transcript.

### **Supplemental Examinations**

Students in a First Year programme may write a supplemental examination in August in one failed 100-series course if they have a term mark in that course of at least 60%. Failure in a supplemental examination will not count as a second failure, but will necessitate re-enrolment in the failed course or a substitute.

Students in Second, Third and Fourth Years and Special Students will not be permitted to write supplemental examinations in 100-series courses and none will be offered in 200-, 300- and 400-series courses.

### **Degrees**

Students are permitted to qualify for only one degree (Bachelor of Arts, Bachelor of Science, or Bachelor of Commerce) by completing a four-year programme of studies.

A student who qualifies for a Bachelor of Arts or Bachelor of Science degree at the end of his Fourth Year will graduate and receive his diploma at that time unless he has already done so at the end of his Third Year. A student who wishes to receive his degree at the end of his Third Year must notify his College Registrar at the time of confirmation of programme early in November.

### **Transcripts**

Copies of a student's transcript of academic record will be issued at his request, subject to reasonable notice and a nominal copying fee. Requests should be submitted in person or by writing to the Secretary, Faculty of Arts and Science, Sidney Smith Hall, 100 St. George Street, Toronto M5S 1A1. (Telephone 928-3388)

### **Checking of Marks**

It is a policy of the Faculty that no examination papers or essays will be re-read or re-evaluated after results have been issued. Examination papers are re-read in each examination in which a mark of less than 50 per cent has been assigned, and no appeal will be considered for further re-reading of such papers. Papers in which at least 50 per cent has been obtained will not be re-read.

All results are carefully reviewed before being released. However, the clerical work involved in the department and in the Faculty Office will be checked if a petition is submitted through the College or the Division of University Extension with a fee of five dollars per course. This fee will be refunded if an error is found.

### **Plagiarism**

Plagiarism is the act of presenting the ideas or words of another as your own. While it may be argued that few ideas are original, instructors expect students to

acknowledge the sources of ideas and expressions that they use in essays. To represent them as self-created is dishonest and academically worthless.

You may quote or paraphrase another writer if he has stated an idea strikingly, as evidence to support your arguments or conclusions, or as a point against which to argue, but such borrowing should be used sparingly and always indicated in a footnote. The aim of scholarship is to develop your own ideas and research and only by trying to develop your own thoughts and arguments will you mature academically.

To provide adequate documentation is not only an indication of academic honesty but also a courtesy enabling the teacher to consult your sources with ease. Failure to do so constitutes plagiarism which is subject to serious academic penalty.



## Abbreviations

### Subject Abbreviations

ANT	Anthropology	GRH	Greek & Roman History (See Classics)
APM	Applied Mathematics (See Mathematics)	HIS	History
AST	Astronomy	INI	Interdisciplinary Innis College
BIO	Biology (Botany, Zoology & Microbiology)	ITA	Italian
CHM	Chemistry	LAT	Latin (See Classics)
COM	Commerce	LIN	Linguistics
CMM	Communications	LTR	Literature in Translation
CSC	Computer Science (See Mathematics)	MAT	Mathematics
DRA	Drama	MUS	Music
ECO	Economics	PHL	Philosophy
ENG	English	PHY	Physics
FAR	Fine Art	POL	Political Science
FRE	French	PSY	Psychology
GGR	Geography	REL	Religious Studies
EPS	Geology & Geophysics (Earth & Planetary Sciences)	SLA	Slavic Languages & Literature (Russian)
GER	German	SOC	Sociology
GRK	Greek (See Classics)	SPA	Spanish
GLL	Greek & Latin Literature (See Classics)	STA	Statistics (See Mathematics)
		SUR	Survey Science

### Letter Abbreviations

E	Course given only at Erindale
F	Half course given in the First (Fall) Term only
L	Lecture Hours
P	Practical or laboratory hours
P.I.	Permission of Instructor
R	Thursday
S	Half course given in the Second (Spring) Term only
T	Tutorial Hours
TBA	To be announced
Y	Half course which must be taken throughout both terms
/	means "or"
&(,)	means "and"
(I)	may be taken by first year students
WES	Winter Evening Session
SDS	Summer Day Session
SES	Summer Evening Session

## Subjects and Courses

### ANTHROPOLOGY

Faculty adviser: Professor A. Mohr

Anthropology is the study of human biology and culture and the interaction between the two. *Physical Anthropology* focuses on the evolution of man and his nearest primate relatives, as revealed by fossil remains, and on the constitution, physiology and variation of living populations. *Cultural Anthropology* is the study of the way of life of peoples throughout the world: their technologies, economies, societies, languages, and value systems; the functional interrelationships of these; and the relationship between culture and environment. Physical remains of the activities of populations no longer extant (e.g., habitations, tools, food remains) are investigated by archaeological techniques to reconstruct the cultures of the past and to trace their development from earliest times. Conclusions are drawn about the interaction of cultural and physical processes.

The Anthropology programme offers the student the general background necessary for the advanced training required for professional positions. It is the special concern of the faculty to introduce students to research methods of physical and cultural anthropology and to involve them in the research programmes of the department. Students planning an anthropology concentration should consult faculty members for advice.

Anthropologists are employed as faculty in universities and colleges, as researchers in museums, and by government. For additional information see *Anthropology as a Career* by Wm. C. Sturtevant, available at the Erindale College Library.

For a Three Year B.A., with a concentration in Anthropology, the following courses are required: First Year: ANT 100. Second Year: 2 ANT courses. Third Year: 2 ANT courses. Programme should include the following core courses: ANT 204E, ANT 226E, and ANT 230E.

For a Four Year B.A., with a concentration in Anthropology, three additional Anthropology courses are required including ANT 399E.

**ANT 100E    Introduction to Anthropology, 2T, 2L**

A survey of the biological and cultural aspects of man and his behaviour: mankind's evolutionary development and present variation; concept of culture, its various aspects and processes; origin, development and differentiation of cultures from the archaeological record.

**Note:** This course has been newly structured without the standard lecture format formerly used. Small groups of students will meet twice a week with an instructor, seminar style, to discuss and clarify assigned reading, the latter designed to provide a unified introduction to anthropology. One two-hour lecture period will be set aside to be used intermittently by the professor for special lectures, projects, and

illustrative materials to make vivid the anthropological concepts studied.

*Instructor:* L. L. Sample

*Instructor:* (SDS) F. J. Melbye, (WES) TBA

ANT 201ES **Peoples of the Far East, 2L**

- (1) Description of traditional cultures of China, Korea, Japan and Siberia. Complex cultural interrelationships in this area (diffusion, assimilation, and cultural distinctiveness).

*Instructor:* L. L. Sample

ANT 203ES **Peoples of Southeast Asia and Oceania, 2L** (Not offered in 1973-74)

- (1) Survey of the cultures of southeast Asia; peopling of the Pacific Islands and description of historic cultures of Oceania.

*Instructor:* L. L. Sample

ANT 204E **Social and Political Organization**

- (1) A general survey emphasizing non-western peoples.

*Instructor:* (WES) W. Weissleder

ANT 207EF **Folklore, 2L, 1P**

- (1) Lectures on ethnographic field techniques; survey description and comparison of types and functions of the "oral literature" of various culture areas. Student project: field work in modern folklore.

*Pre-requisite:* P.I.

*Instructor:* L. L. Sample

ANT 208ES **Advanced Folklore, 2L, 1P** (Not offered in 1973-74)

- (1) Various approaches to folklore analysis, relation to general anthropological theory and method. Student project: laboratory in folklore analysis.

*Pre-requisite:* ANT 207 EF and P.I.

*Instructor:* L. L. Sample

ANT 209E **Religion in Culture, 2L, 1T**

- (1) An anthropological view of religious behaviour with emphasis on the religions of non-western peoples.

*Instructor:* R. M. Vanderburgh

ANT 210E **The Anthropology of Art, 2P**

- (1) Comparative approaches to art and aesthetics in world cultures and

the meaning and function of art in specific cultural contexts.

*Instructor:* L. Reinhardt

**ANT 211EF African Culture History, 2L**

- (I) A survey of African culture history from the dawn of prehistory through the colonial era. Consideration of variety in adaptational forms and development; agricultural origins, state systems, reactions to colonialism.

*Instructor:* L. Reinhardt

**ANT 212ES Traditional and Contemporary African Cultures, 2L**

- (I) Survey of traditional African cultures and institutions, and the changes involved in current movement toward industrialization.

*Pre-requisite:* ANT 211EF or P.I.

*Instructor:* L. Reinhardt

**ANT 214E Civilizations of Latin America, 2L**

- (I) Development and characteristics of complex cultures of Central and South America.

*Instructor:* TBA

**ANT 215E Native Peoples of Latin America, 2L (Not offered in 1973-74)**

- (I) *Instructor:* TBA

**ANT 220EF Archaeological Field Methods, 2P: Field trips August 20-31:**

- (I) 8 a.m.-5 p.m.

Instruction in archaeological field techniques through excavation of a prehistoric site located near Erindale College and by laboratory instruction.

*Pre-requisite:* P.I.

*Instructor:* F. J. Melbye

**ANT 221ES Archaeological Laboratory Analysis, 1L, P**

- (I) Analysis and description of archaeological material.

*Pre-requisite:* ANT 220EF and P.I.

*Instructor:* F. J. Melbye

**ANT 225E North American Archaeology**

- (I) A survey of culture history from the first appearance of man in North America until the coming of the Europeans. Selected readings provide the broad outline; lectures will discuss methods of analysis and offer detailed summaries of the evidence of selected sites and their interpretation.

*Instructor:* (WES) W. Hurley/TBA

- ANT 226E **Old World Prehistory, 2L** (Not offered in 1973–74)  
 (I) Earliest evidence for human culture; development, differentiation and diffusion of cultures in the Old World through the last 2,000,000 years. Interpretation of man's cultural adaptations from material remains of that behaviour.  
*Instructor:* L. L. Sample
- ANT 230E **Physical Anthropology, 2L, 1T**  
 (I) A survey of the field of physical anthropology. Topics will include human evolution and palaeontology, skeletal biology, human genetics and variation, human growth, primatology and human adaptation.  
*Instructor:* F. J. Melbye  
*Instructor:* (SDS) F. J. Melbye
- ANT 231EY **Laboratory Methods in Physical Anthropology, 2P**  
 (I) A course recommended for those who think they may concentrate in anthropology. The student will be guided in basic laboratory procedures on specific topics as they are discussed in the survey course.  
*Co-requisite:* ANT 230E  
*Instructor:* F. J. Melbye
- ANT 232E **Human Origins, 2L, 1P**  
 A survey of human palaeontology and the evolutionary stages through which man passed in becoming *Homo sapiens*.  
*Pre-requisite:* ANT 100  
*Instructor:* B. A. Sigmon
- ANT 241E **Indians of North America, 2L, 1P**  
 (I) Survey of native cultures and discussion of the role of environmental and historical factors.  
*Instructor:* A. Mohr
- ANT 304ES **Approaches to the Study of Canadian Indian Societies, 2T** (Not offered in 1973–74)  
 A seminar course examining the acculturative situation.  
*Pre-requisites:* ANT 204E or ANT 241E and P.I.  
*Instructor:* R. M. Vanderburgh
- ANT 320EF **Advanced Archaeological Field Methods, 2P:** Field trips August 20–31  
 8 a.m.–5 p.m.



Instruction in archaeological field techniques, laboratory preparation, supervision of field and laboratory work. (Conducted concurrently with ANT 220EF)

*Pre-requisite:* ANT 220EF and P.I.

*Instructor:* F. J. Melbye

ANT 321ES **Advanced Archaeological Analysis, P**  
Analysis of archaeological material and report preparation.

*Pre-requisites:* ANT 221ES and P.I.

*Instructor:* F. J. Melbye

ANT 322E **Special Course in Archaeological Field Methods; Field session from**  
(1) **about May 15 to June 30, 1973.**

Instruction in archaeological field methods. The course is held in an area which provides experience with types of archaeological phenomena not available for ANT 220EF. In 1973 the session will be in the region of Lindreth, New Mexico.

*Pre-requisite:* P.I.

*Instructors:* L. L. Sample and A. Mohr

ANT 324E **Archaeological Interpretation, 2T**

A survey of methods and ideas about the reconstruction of the past from the archaeological record including subsistence, population, social organization, religion, settlement plan and organization, etc.

*Pre-requisite:* ANT 220EF, 221ES or ANT 225E or ANT 226E and P.I.

*Instructor:* A. Mohr

ANT 334E **Skeletal Biology of Prehistoric Peoples**

The course includes the method and technique of recovering, preserving, recording and analysing skeletal remains. The human skeleton will be studied in detail, and practical experience will be offered in the analysis of a skeletal population.

*Pre-requisite:* P.I.

*Instructor:* (WES) F. J. Melbye

ANT 336ES **Human Heredity, Evolution and Variation, 2L, 2P** (Not offered in 1973-74)

The principles of human population genetics are the central theme of the course. Against this background topics relating to human evolution and human diversity will be discussed.

*Pre-requisite:* ANT 230E (or ANT 233E (1972-3)) or P.I.

*Instructor:* F. J. Melbye

- ANT 338E **Primate Biology, 3P**  
 An introduction to the biology of non-human primates, including the study of soft and skeletal anatomy of representatives of different taxa of extant primates.  
*Pre-requisite:* ANT 233E (1972-3) or P.I.  
*Instructor:* B. A. Sigmon
- ANT 339EF **Human Adaptability, 3L** (Not offered in 1973-74)  
 A survey of the nature and range of biological variation in modern man.  
*Pre-requisite:* ANT 100E, ANT 233E (1972-3) or P.I.  
*Instructor:* B. A. Sigmon
- ANT 397EY **Independent Study, T:** To be arranged  
 Supervised reading on selected anthropological topics.  
*Pre-requisite:* P.I.  
*Instructor:* Staff
- ANT 398E **Independent Reading, T:** To be arranged  
 Supervised study of selected anthropological topics.  
*Pre-requisite:* P.I.  
*Instructor:* Staff
- ANT 399E **Independent Research, T:** To be arranged  
 Supervised research in anthropology.  
*Pre-requisite:* P.I.  
*Instructor:* Staff
- ANT 422E **Special Projects in Archaeological Field Research**  
 Held in conjunction with ANT 322E (see above). Advanced students will be supervised in individual investigation of special problems in the archaeology of the area.  
*Pre-requisites:* ANT 320E and 321E or ANT 322E and P.I. or P.I.  
*Instructors:* L. L. Sample and A. Mohr
- ANT 490E **Seminar in Anthropological Theory and Method**  
*Pre-requisite:* P.I.  
*Instructors:* Staff
- ANT 499E **Advanced Independent Research**  
 Course for students whose original research is leading toward a publishable report.  
*Pre-requisite:* P.I.  
*Instructors:* Staff

## ASTRONOMY

Faculty Advisers: Professors J. R. Percy and R. Racine

Astronomy, the “Queen of Sciences,” is wide-ranging in its content and in its implications. It embraces such topics as the origin and evolution of the planets, stars, galaxies and universe; the origin of life on earth and elsewhere; the behaviour of matter in varied environments and, in general, the influence of our ideas of the universe on man’s thinking down through the ages. Because of its breadth, it has always formed a valuable part of a general education.

AST 100, which deals in a systematic way with many facets of astronomy, is recommended for any student who is interested in astronomy. Although no science or mathematics background is required, the course is sufficiently flexible to appeal to both science and non-science students. Films, slides, demonstrations, trips to the observatory and planetarium, and evening sessions form an important part of the course.

At a more advanced level, AST 310EF and AST 320ES may be taken together or separately. They are intended for students with a serious interest in science (mathematics, physics, astronomy, space science or earth and planetary sciences), but require no previous introduction to astronomy.

Students who wish to specialize in Astronomy and Astrophysics should consult the Astronomy discipline representatives at Erindale.

**AST 100      An Introduction to Astronomy, 2L, 1T**

An account of the nature, origin and evolution of the sun and planets, the stars, the galaxies and the universe. No special science or mathematics background is required for this course. (May not be combined with AST 110, 120, 130 or 220 previously offered.)

*Instructor:* R. Racine

*Instructor:* (SDS) TBA

**AST 310EF      Solar System Astrophysics, 2L**

The physical nature of the sun, planets, satellites and other constituents of the solar system. Their motion, structure, origin and evolution.

*Co-requisite:* At least one 300-level Physics course/P.I.

*Instructor:* J. R. Percy

**AST 320ES      Stellar and Galactic Astrophysics, 2L**

The structure, origin and evolution of the sun, stars, galaxies and universe. Introduction to relativity and cosmology.

*Co-requisite:* At least one 300-level Physics course/P.I.

*Instructor:* J. R. Percy

## BIOLOGY

Faculty Advisers: Professors P. W. Ball (Botany), P. J. Pointing (Zoology) and A. Guha (Microbiology)

Biology is the science of living organisms—their kinds and relationships, origins and evolution, structure and development, their functions and mutual relationships in the environments in which they occur. Biology relates to such major human problems as population, conservation and pollution. Studies of the interaction of plants, animals and environment show how famine and disease follow the unwise use of habitat and how pollution aggravates these problems. A study of Biology is a key to the solution of many of these world problems.

Botanists, microbiologists and zoologists at Erindale cooperate closely in organizing courses and programmes in *Biology* which stress the relationships of plants and animals in terms of form, function, environment and microstructure, from the ecosystem, whole plant or animal down to the molecular level.

*Botany* is concerned with plants, their structure, functions and basic relationships to the environment. The food we eat, the air we breathe, the drugs that heal us, are all ultimately tied to the relation of plants to the natural environment. Plants are the basis of vast and complicated food chains in the oceans, lakes and rivers as well as in terrestrial ecosystems. Plants may be studied from many points of view such as their identification and relationships (Taxonomy), distribution (Biogeography), function and development (Physiology), interrelationships with the environment (Ecology), fine structure (Cell Biology), form (Morphology) and heredity (Cytology and Genetics).

*Zoology* is the science concerned with the study of the structure, functioning and interrelationships of animals. The general field of zoology is divided into a large number of special areas of study and research. Zoology may be divided on the basis of the classification of animals, for example, protozoology, entomology, mammalogy, and ichthyology. Another way is to divide it by levels of organization and/or methods of study, such as molecular biology, cell biology, morphology, physiology, genetics, ethology, and population biology.

Historically, zoology was largely an observational science, but now has become more experimental and theoretical and depends in its research on the modern principles of mathematics and the physical sciences. The main theoretical contributions of zoologists have been in the understanding of life in terms of physical and chemical mechanisms, and the theory of organic evolution. Much of the research done in medicine depends on discoveries made with other animals and applied to man. Many agricultural fields, such as veterinary medicine and economic entomology, also depend on zoological research.

*Microbiology* is the study of minute living forms that can be seen as individuals only with the microscope and is concerned with small *plant* forms (algae, molds, yeasts and bacteria), single-celled *animals* (protozoa) and viruses. Microbiology is



not only considered largely an applied field concerned with health or economic welfare, but with the recent development of Molecular Biology, Microbiology has also been drawn to the centre of the biological stage. It deals with bacteriology, virology, immunology, applied microbiology and molecular biology.

Careers in biology are in research, in teaching at all levels, and in government and industry. Professional careers in biology require specialization at the undergraduate level, and usually an advanced degree. Students should bear this in mind when planning programmes. Students who intend to become high-school biology teachers are urged to arrange programmes to meet the requirements of the High School Assistant's Certificate, Type A, Ontario Department of Education.

Staff will assist students in organizing an appropriate group of courses according to their interests or a specialized programme in biology.

### SUGGESTED PROGRAMMES IN BIOLOGY

The programme in Arts and Science provides a great deal of flexibility in student's subject selections. In fact, many students, when faced with the variety of courses, have difficulty in selecting an appropriate sequence. To assist students in making choices, the biology staff members, collectively, have devised several sample programmes which will serve as guides. These are suggested groupings of subjects which are recommended but should not be considered as the only streams, nor as being inflexible; they are, we hope, helpful suggestions.

<i>Year</i>	<i>General Biology</i>	<i>Ecology</i>	<i>Cell Biology</i>	<i>Physiology</i>
<b>I</b>	BIO 100E CHM 120E 3 Options (one recommended from Humanities)	BIO 100E CHM 120E BIO 110E 2 Options	BIO 100E CHM 120E MAT 110EF/S PHY 120E 1½ Options	BIO 100E CHM 120E MAT 110EF/S PHY 120E 1½ Options
<b>II</b>	BIO 230E* BIO 240E BIJ 241E BIO 250E BIO 251E	BIO 230E BIO 250E BIO 251E BIO 260E 1 Option	BIO 230E BIO 241E BIO 240E BIO 270EF 1½ Options	BIO 241E BIO 250E or 251E BIO 252E BIO 270EF 1½ Options
<b>III</b>	BIO 252E BIO 320E BIO 321E BIO 370E	BIO 240E BIO 241E BIO 320E or 321E BIO 330E 1 Option	BIO 252E BIO 250E or 251E BIO 370E BIO 320E or 321E 1 Option	BIO 230E BIO 240E BIO 260E BIO 320E or 321E 1 Option



<i>Year</i>	<i>General Biology</i>	<i>Ecology</i>	<i>Cell Biology</i>	<i>Physiology</i>
IV (1) (2)	5 Options	5 Options such as: BIO 430E BIO 431E BIO 432E BIO 322E and 323E etc.	5 Options such as: BIO 441E BIO 470E etc.	5 Options such as: BIO 322E, 323E BIO 324E, 421EF BIO 422ES, 423ES BIO 424ES, 441EF

\*Choose a total of 6 Biology courses and 4 options during years II and III.

(1) A maximum of 12 Biology courses in a four-year degree is suggested for a well-rounded education.

(2) A fourth year would consist primarily of biology options.

**BIO 100E    The Study of Life, 2L, 3P**

Organized around three major abstract concepts: Time (Evolutionary Processes and Products), Energy (Its Procurement and Utilization by Living Organisms), and Information (The Organization of Living Systems). It presents an integrated study of life at four levels: molecular, cellular, organismal, and social; leading the student to an awareness of the five unique characteristics of living material, i.e. Organized Structure, Specialized Function, Growth and Development, Heredity, and Evolution. Practical sessions will introduce the student to a wide range of material and techniques.

*Instructors:* G. R. Thaler and Staff

**BIO 110E    Field Biology, 5P**

A field and laboratory course to acquaint the student with plants and animals in the local environment. Collection techniques and observation are emphasized in the field. Identification of major groups of plants and animals is covered in the laboratory. Students will be required to make a collection of some group of animals or plants.

*Instructors:* D. L. Gibo and P. W. Ball

**BIO 130E    Man and the Environment, 2L, 3T**

The ecological problems confronting humanity will be examined on both a local and global scale. The biological basis of the population problem, pollution and status of resources will be stressed. Divergent opinions will be expressed by outside speakers. Field trips will be arranged, and each student will spend time upon a project of personal interest. Intended primarily for students in the arts, humanities and

social sciences. No previous experience in biology is assumed.

*Instructors:* R. Frost and P. J. Pointing

**BIO 230E Ecology, 2L, 3P**

The study of the interrelations of plants and animals with the environment will include the composition, structure, and function of natural ecosystems at the population, community, and biosphere levels of organization. Other topics include energy flow, physical factors, population processes and succession.

*Pre-requisite:* BIO 110E recommended and P.I.

*Instructors:* P. F. Maycock, P. J. Pointing, W. G. Sprules and TBA

**BIO 240E Genetics, 2L, 3P**

Presents current concepts in genetics; examples are drawn from microbes, plants, animals and viruses to illustrate: the molecular structure of the gene, mechanisms of gene action and gene regulation, levels of genetic organization in different life forms, basic population genetics, and genetical aspects of evolution. Practicals will include both plant and animal material and will involve carrying out both directed and independent experiments. Much of the laboratory work will involve *Drosophila*.

*Pre-requisite:* BIO 100E

*Co-requisite:* BIO 260E recommended

*Instructors:* D. L. Gibo and W. G. Filion

*Instructor:* (SDS) W. G. Filion

**BIO 241E Cell Biology, 2L, 3P**

Cell structure and function. Cell organization at the organelle and molecular level will be considered in bacterial, animal and plant cells. Topics include the structure and function of membranes, nuclei, mitochondria, plastids and other organelles. In the laboratory the student will become familiar with current techniques of cell biology.

*Pre-requisite:* BIO 100E

*Instructors:* J. C. Silver, P. Horgen and D. H. O'Day

**BIO 250E Plant Form and Function, 2L, 3P**

A survey of the major plant groups from the Fungi and Algae to Flowering forms. The structure and life history of representatives are considered together with a discussion of the function of the major tissues and organs. The evolution of plants is discussed with particular reference to fossils.

*Pre-requisite:* BIO 100E/P.I.

*Instructors:* P. W. Ball and W. G. Filion

- BIO 251E     Animal Form and Function, 2L, 3P**  
 How animals are structurally designed to cope with the environment is the main theme. The “capture” of food, the processing and distributing systems, and locomotion are some of the topics treated comparatively and from an evolutionary point of view, drawing examples from both vertebrates and invertebrates.  
*Pre-requisite:* BIO 100E  
*Instructors:* G. K. Morris and P. J. Pointing
- BIO 252E     Developmental Biology, 2L, 3P**  
 Important developmental events in plants and animals from the formation of gametes through fertilization and organogenesis. Laboratories stress the dynamic aspects of development by frequent use of living material.  
*Pre-requisite:* BIO 100E  
*Co-requisite:* BIO 241E  
*Instructors:* P. Horgen and D. H. O'Day
- BIO 260E     Biometrics, 2L, 3P**  
 An introduction to the theory and application of statistics in Biology. Topics will include probability theory, descriptive statistics, sampling theory, hypothesis testing, analysis of variance, experimental design, correlation and regression, and non-parametric methods. Collection and analysis of biological data will be carried out in the laboratory.  
*Instructor:* W. G. Sprules
- BIO 270EF     Introductory Physical Chemistry for Life Sciences, 2L, 3P**  
 (Same as CHM 270EF)  
 Introduction to the physical properties of solutions and interfaces with emphasis on techniques and theories pertinent to the chemistry of living systems. Colligative properties of solutions, interfacial phenomena, thermo-dynamics and equilibria, elementary kinetics, oxidation and reduction will be studied.  
*Co-requisite:* CHM 240E  
*Instructors:* B. I. Roots and M. Moskovits
- BIO 320E     Plant Physiology, 2L, 3P**  
 Study of principal physiological processes of plants and the influence of environmental factors on these processes. Topics will include: water relations, mineral nutrition, translocation, photosynthesis, respiration, general metabolism, growth and development.  
*Pre-requisite:* BIO 100E, CHM 120E  
*Instructor:* P. V. Rangnekar

- BIO 321E Introduction to Animal Physiology, 2L, 3P**  
 A comparative approach will be taken to the study of physiological processes in animals. Emphasis will be placed on the understanding of underlying principles. Topics will include respiration, excretion, osmoregulation, ionic regulation and the physiology of muscle and nerve.  
*Pre-requisite:* BIO 100E, CHM 120E  
*Instructor:* B. I. Roots
- BIO 322EF Animal Behaviour I: Social Factors, 2L, 3P**  
 A lecture and practical course dealing with the organization of animal societies, communication and sensory coding, learning, and the physiological basis of behaviour.  
*Pre-requisite:* BIO 251E/P.I.  
*Instructor:* G. K. Morris
- BIO 323ES Animal Behaviour II: Physical Factors, 2L, 3P**  
 A lecture and practical course dealing with the responses of animals to environmental factors such as light, temperature, humidity, etc.  
*Pre-requisite:* BIO 251E/P.I.  
*Instructor:* P. J. Pointing
- BIO 324E Animal Physiology, 2L, 3P (Not offered in 1973–74)**  
 A few topics will be studied in depth. Emphasis will be placed on the understanding of underlying principles. Topics will be selected from: respiration, excretion, osmoregulation, ionic regulation, endocrinology, muscle physiology and others.  
*Pre-requisites:* BIO 100, CHM 120, BIO/CHM 270EF recommended  
*Instructor:* TBA
- BIO 330E Plant Ecology, 2L, 3P**  
 The relationships of plant species, populations and complexes on the sociological, environmental and physiological levels. Practical field work, laboratory studies and experimentation are included. Provides a basis for practical training in conservation and environmental quality research.  
*Pre-requisite:* BIO 230E recommended  
*Co-requisite:* BIO 110E recommended  
*Instructors:* P. F. Maycock and R. Frost
- BIO 332E Freshwater Biology, 1L, 4P**  
 A survey of the freshwater algae, rooted aquatic plants, zoöplankton,

benthic fauna, and fish. The taxonomy, life histories and ecology of local species will be emphasized.

*Pre-requisite:* BIO 110E/P.I.

*Instructor:* TBA

BIO 350E

**Taxonomy and Evolution of Flowering Plants, 2L, 3P**

A consideration of the principles of classification of living organisms with particular emphasis on flowering plants. Topics to be discussed include "The Species Concept", "Polyploidy", "Geographical Variation" and "Numerical Taxonomy". The laboratory work will involve an examination of the main families of flowering plants and the study of variation in naturally occurring plant populations.

*Pre-requisites:* BIO 110E, BIO 240E/P.I.

*Instructor:* P. W. Ball

BIO 351ES

**Invertebrate Form and Function, 2L, 3P**

The structure and classification of invertebrate animals, especially arthropods. A continuation in greater depth of invertebrate topics begun in BIO 251E. Appendages and skeletons, copulatory organs and sensory receptors will be studied as adaptive structures.

*Pre-requisites:* BIO 251E and/or BIO 110E

*Instructor:* G. K. Morris

BIO 370E

**General Microbiology, 2L, 3P**

Historical development of microbiology; structure and ultrastructure of micro-organisms; physiology and nutrition of bacteria; growth and cultivation of bacteria; nature of viruses; bacteriophage and a limited survey of animal viruses and their properties; micro-organisms in medicine, industry and agriculture; immunology and immunochemistry, microbial physiology, microbial genetics and microbial ecology.

*Pre-requisites:* BIO 100E, CHM 120E

*Co-requisites:* BIO 241E (CHM 240E recommended)

*Instructor:* A. Guha

BIO 371ES

**Virology, 2L, 3P**

Fundamental principles and techniques of animal virology including methods of tissue culture; virus cultivation and assay; and physiology of virus development will be dealt with in detail.

*Pre-requisites:* BIO 100 and CHM 120E

*Co-requisite:* BIO 370E (BIO 241E recommended)

*Instructor:* TBA



- BIO 421EF **Physiology of Nervous Systems**, 1L, 1T, 3P (Not offered in 1973–74)  
 Various aspects of the physiology of nervous systems will be studied including neurochemistry and neuropharmacology.  
*Pre-requisites:* BIO 100, CHM 120, BIO/CHM 270EF, BIO 321E recommended, P.I.  
*Instructor:* B. I. Roots
- BIO 422ES **Acoustical Biology**, 2L, 3P  
 The role of sound in animal communication. Mechanisms of sound production and reception; the signal function of sounds. Recording and analysis techniques.  
*Pre-requisite:* BIO 322EF/P.I.  
*Instructor:* G. K. Morris
- BIO 423ES **Radioisotopes in Biology**, 2L, 3P  
 Radioisotopes, their production and properties useful in biological or biochemical investigations. Principles of tracer methodology. Application of tracer techniques in translocation, assimilation, intermediary metabolism, etc. Measurement of radioactivity using different counting systems, radioautography, etc.  
*Pre-requisites:* BIO 100E, CHM 120E/P.I.  
*Instructor:* P. V. Rangnekar
- BIO 424ES **Physiology of Sense Organs**, 2L, 3P (Not offered in 1973–74)  
 A comparative study will be made of the sense organs of animals.  
*Pre-requisites:* BIO 100E, CHM 120E, PHY 120E, BIO 321 recommended, P.I.  
*Instructor:* TBA
- BIO 430E **World Ecosystems**, 2L, 3P (Not offered in 1973–74)  
 A systematic investigation of the major plant and animal formations of the world. The composition, structure, distribution, productivity and dynamic aspects, will be viewed in relation to major environmental influences. The importance of these ecosystems in cultural, economic, conservation, and social terms will also be considered.  
*Pre-requisites:* BIO 230E, 330E, P.I.  
*Instructor:* P. F. Maycock
- BIO 431E **Theoretical Ecology**, 2L, 1T  
 An advanced course in which the theoretical aspects of a selection of ecological phenomena will be emphasized. Topics will include

production and population dynamics, energy flow, character displacement and competitive exclusion, succession, community diversity and stability, and theories of biogeography. Techniques of analysis such as mathematical modelling and principle components analysis will also be discussed. Material for the course will come principally from current ecological literature.

*Pre-requisite:* BIO 230E

*Instructors:* W. G. Sprules and TBA

**BIO 432E    Applied Ecology, 2L, 3P**

A study of the ecological implications of principles and techniques employed in the utilization and conservation of natural resources. Examples will be chosen mainly from agriculture, forestry, fish and wildlife exploitation and recreation. Problems involved in the establishment of natural conservation areas, the multiple use of resources and methods of land use planning will be discussed. The course will include lectures, seminars, field work and individual projects.

*Pre-requisite:* BIO 230E

*Co-requisite:* Recommended preparation: BIO 330E

*Instructor:* R. A. Frost

**BIO 435EF    Biogeography (offered Tuesday 7:00–10:00 p.m.)**

Lectures, tutorials, readings, and practical exercises designed to elucidate the principles of plant and animal distribution patterns.

*Pre-requisites:* BIO 230E/P.I.

*Instructor:* G. R. Thaler

**BIO 440EF    Population Genetics, 2L, 3P**

Behaviour of genes in populations, mechanisms for maintaining genetic diversity, consequences of population size, inbreeding and natural selection are some of the topics that will be covered. The laboratory work will include population studies and simple model testing. Course will alternate with BIO 442EF.

*Pre-requisite:* BIO 100E/110E

*Instructor:* D. L. Gibo

**BIO 441EF    Electron Microscopy, 1L, 3P**

An introduction to the theory and practice of electron microscopy and its application to the study of the ultrastructure of cells and tissues.

*Pre-requisite:* Written P.I. required for registration

*Instructor:* B. I. Roots

- BIO 442EF Evolution, 2L, 3P (Not offered in 1973–74)**  
 Major features and strategies of evolution will be emphasized. Mechanisms of speciation, mimicry, character displacement and genetic drift are some of the topics that will be covered. Labs include selection experiment, model testing, and individual presentations. Course will alternate with BIO 422ES  
*Pre-requisites:* BIO 100E/110E; BIO 240E recommended  
*Instructor:* D. L. Gibo
- BIO 443EF Plant Breeding, 2L, 3P (Not offered in 1973–74)**  
 The application of genetics and biometry to the principles of breeding both self-pollinated and cross-pollinated plants. Specific examples are drawn from Ontario grown crops.  
*Pre-requisite:* BIO 240E  
*Co-requisite:* BIO 260E  
*Instructor:* W. G. Filion
- BIO 444EF Cytogenetics, 2L, 3P**  
 Selected topics of current interest in cytogenetics and specialized topics such as the organization and behaviour of chromosomes, and chromosome aberrations will be discussed. Students are asked to see the instructor prior to registration.  
*Pre-requisite:* BIO 240E or equivalent  
*Instructor:* W. G. Filion
- BIO 452EF Current Topics in Animal Development, 2L, 1T**  
 This course focuses on the contribution of various scientists to the understanding of such problems as growth, induction, regeneration, oöcyte maturation, gene amplification and cancer. Informal tutorial sessions enhance the lectures through critical discussions of recently published research articles.  
*Pre-requisites:* BIO 241E, BIO 252E, P.I.  
*Instructor:* D. H. O'Day
- BIO 470E Molecular Biology, 2L, 1T**  
 To provide a background for students of biology and other sciences for further study in modern biology. The course will deal with microbial and viral genetics; the structure, function and biosynthesis of nucleic acids and proteins; cell permeability; bioenergetics; regulatory mechanisms in bacteria; modern physico-chemical methods in studies of biomolecules, etc.  
*Pre-requisites:* BIO 370E, BIO 241E or equivalent, P.I. essential  
*Instructors:* A. Guha, P. A. Horgen and J. C. Silver

**BIO 480EY Biology Research Project I**

A research project carried out under the supervision of a staff member. Open to third or fourth year students. Written consent of staff member supervising the project must be obtained for registration.

**BIO 481EY Biology Research Project II**

Open only to fourth year students. A fourth year student may combine BIO 480EY and BIO 481EY into a single project. Written consent of staff member must be obtained for registration.

## CHEMISTRY

Faculty Adviser: Professor I. W. J. Still

Chemistry is both a challenging intellectual pursuit and a dominant force in shaping modern civilization. Modern chemistry provides an understanding of the structures and properties of atoms and molecules and uses this knowledge to interpret and predict the changes associated with chemical reactions. In addition to its vital role in modern science-based industry, chemistry has an increasingly important bearing on other sciences such as biology, the medical sciences, psychology, geology, metallurgy and astrophysics. As an intellectual pursuit it is also becoming increasingly recognized as a sound basis for other walks of life, combining as it does the need for both disciplined and imaginative thinking. This is reflected in the courses offered in the recommended programme in Chemistry. The basic core of chemistry courses, with ancillary Mathematics and Physics, will enable the student to choose courses at the fourth year level reflecting his specific area of interest.

The Chemistry programme offered at Erindale College is a very suitable preparation for those intending to teach chemistry in High School (Type A certificate), continuation into graduate work or entry into industry. It also includes courses for those working in cognate disciplines such as biology and earth and planetary sciences.

### Chemistry Specialist Programme at Erindale

Year I CHM 120E, MAT 139E/MAT 135E, PHY 120E.

Year II CHM 220E, 230ES, 240E, MAT 239E/235E/APM 251E, PHY 220E/another 200-series course in Science/Mathematics.

Year III CHM 320E, 330E, 340E, and one course from CHM 350E, CHM 360E, another Science or Mathematics.

Year IV Three 400 series courses in chemistry.

### Chemistry and Biochemistry Specialist Programme at Erindale

Year I CHM 120E, MAT 135E/139E, PHY 120E, BIO 100E/110E.

Year II CHM 220E, 230ES, 240E, MAT 235E/239E/APM 251E.



- Year III CHM 320E/CHM 330E, CHM 340E, CHM 360E, CHM 371EY, CHM 347S (St. George) (BIO 370E recommended).
- Year IV At least one BCH and two CHM courses at 400-level, and one course from BCH/CHM/BIO 470E.

N.B. Current Type A Certificate of Education for a chemistry specialist requires a minimum of *nine* courses in chemistry, with a B average standing, to be taken during a four-year course.

- CHM 120E **Basic Concepts of Chemistry**, 3L, 1T (Fall Term) 2L, 3P (Spring Term)  
Molecular structures and geometry, chemical bonding and chemical reactions are discussed on the basis of insight into the behaviour of atoms and molecules that comes from descriptive quantum mechanics, chemical kinetics, and chemical thermodynamics. The Periodic Table; introduction to organic and inorganic chemistry; chemical equilibria; reaction mechanisms and chemical reactivity. Students intending to register in CHM 120E without the Grade XIII preparation are advised to consult the instructors during the summer so that a suitable reading programme may be arranged prior to commencement of lectures.  
*Pre-requisite:* Gr. XIII CHM and MAT A/P.I.  
*Co-requisite:* MAT 135E/MAT 110EF and 120ES. (MAT 139E/135E and PHY 120E required for Specialist Programmes in Chemistry)  
*Instructor:* E. A. Robinson and J. C. Poë
- CHM 220E **Introduction to Physical Chemistry**, 3L  
The following topics will be discussed—Basic thermodynamics, chemical potentials, thermodynamic manipulations, solution thermodynamics. Electrochemistry and solution chemistry. Surface chemistry, phase equilibria, and colloid chemistry. Reaction kinetics and catalysis (mechanisms). Introductory quantum mechanics and application to chemistry. Spectroscopy, including applications of infrared, ultraviolet, nuclear magnetic resonance, electron spin resonance. Introductory mass spectrometry and x-ray analysis.  
*Pre-requisites:* CHM 120E, MAT 139E/135E  
*Co-requisites:* None (MAT 239E/235E/APM 251E recommended) (May not be combined with PHY 252EF)  
*Instructor:* J. M. Deckers
- CHM 230ES **Introduction to Inorganic Chemistry**, 2L, 4P  
Ionic bonding and lattice structures and energies. Solution chemistry and solubilities. Covalent bonding and stereochemistry. Descriptive



chemistry of hydrogen and the first period. Introduction to transition metal chemistry and metal complexes.

*Pre-requisite:* CHM 120E

*Instructors:* G. A. Ozin and A. J. Poë

- CHM 240E **Introduction to Organic Chemistry**, 2L, 1T (Fall term), 2P  
The synthesis and reactivity of the major classes of organic compounds will be discussed from the standpoint of modern theories of structure and reaction mechanism. The chemistry of some natural products, principally fats, carbohydrates, and amino-acids and peptides will also be considered.

The basic laboratory techniques and selected examples of the synthesis and spectroscopic analysis of organic compounds will be presented in the laboratory in such a way as to complement the lecture material.

*Pre-requisite:* CHM 120E

*Instructor:* I. W. J. Still

- CHM 270EF **Introductory Physical Chemistry for Life Sciences**, 2L, 3P  
(Same as BIO 270EF)  
Introduction to the physical properties of solutions and interfaces with emphasis on techniques and theory pertinent to the chemistry of living systems. Colligative properties of solutions, interfacial phenomena, thermodynamics and equilibria, pH and buffers, elementary kinetics, oxidation and reduction.

*Co-requisite:* CHM 240E

*Instructors:* Chemistry and Biology staff

- CHM 320E **Physical Chemistry**, 2L, 4P (8 hours every second week)  
Quantum statistical mechanics. The solid and liquid states. Physical chemistry of surfaces. Photochemistry. The long laboratory period allows quite advanced experiments to be undertaken.

*Pre-requisite:* CHM 220E, MAT 239E/235E/APM 251E

*Co-requisite:* None (MAT 335E recommended)

*Instructor:* J. M. Deckers

- CHM 322F **Quantum Chemistry and Spectroscopy**, 2L, 1T  
Classical and quantum mechanical theories of radiation. Selection rules. Elements of electronic, vibrational, rotational, Mössbauer, ESR, NMR, and NQR spectroscopy. Spectra of atoms and molecules. Chemical applications of Group Theory.

*Pre-requisite:* CHM 220E

*Instructor:* M. Moskovits

**CHM 330E Advanced Inorganic Chemistry, 2L, 4P**

Chemical applications of spectroscopy. Descriptive chemistry of the main group elements. Theories of bonding in transition metal complexes. Chemistry of metal carbonyls and nitrosyls, etc. Organometallic compounds and hydrides. Thermodynamics of complex formation. Mechanisms of reactions of metal complexes. Descriptive chemistry of transition metals. The laboratory course covers a wide range of synthetic and instrumental techniques and is associated with an informal programme of tutorials.

*Pre-requisite:* CHM 230ES

*Instructors:* A. J. Poë and G. A. Ozin

**CHM 340E Advanced Organic Chemistry, 2L, 4P**

The stereochemistry of organic compounds in relation to their physical and chemical properties and to factors affecting rates of reaction. Mechanistic aspects of organic reactions. The application of both stereochemical and mechanistic considerations to the synthesis of polyfunctional organic compounds in both lecture and laboratory.

*Pre-requisite:* CHM 240EF, CHM 245ES (1972–3 calendar)/P.I.

*Instructors:* I. W. J. Still and M. A. Winnik

**CHM 350E Instrumental Methods in Chemistry, 1L, 1T, 3P**

This course is designed to provide an appreciation of the scope and limitations of some of the more useful techniques of instrumental analysis. A range of instrumental experience is available in the laboratory to allow the student to direct his training according to his interests and/or needs. The lecture course will cover the basic theory behind many of the commoner instrumental methods, and will discuss general methods of approach to analytical problems and treatment of the results. (As well as being of importance to chemistry students, Biology, Earth Sciences and Physics students would find this course useful.)

*Pre-requisite:* CHM 230ES (CHM 270EF/CHM 220E recommended)

*Instructor:* TBA

**CHM 360E Biological Chemistry, 2L, 1T**

A lecture course in general biochemistry treating physical chemistry of proteins, enzyme reaction kinetics and mechanisms, metabolic processes and control mechanisms, biosynthetic pathways of small molecules, nucleic acids and protein synthesis, and bioenergetics. In the spring term each student will prepare a term paper, based on literature research in a topic of current biochemical interest, and will

discuss it in a seminar. This course is an acceptable equivalent to BCH 320/321 as pre-requisite for fourth-year courses in Biochemistry.

*Pre-requisite:* CHM 240EF (1972–3 calendar) and CHM 220E/CHM 270EF (CHM 230ES recommended)

*Co-requisite:* CHM 340E recommended

*Instructors:* M. A. Winnik, J. C. Poë

CHM 371EY **A Laboratory Course in Biochemistry, 3P**

To complement CHM 360E and prepare for BCH 471 (St. George)

*Co-requisite:* CHM 360E and P.I.

*Instructor:* TBA

CHM 410 **Topics in Chemistry, 2L**

A series of topics covering major areas of current interest in inorganic, organic and physical chemistry such as organometallic chemistry, organic synthesis, spectroscopy, kinetics, organic and inorganic reaction mechanisms, and the chemistry of biochemically important molecules. A total of 75 lectures will be given and students will have to choose topics totalling 50 lectures.

*Pre-requisite:* CHM 220E, 330E, 340E and P.I.

*Instructor:* Staff

CHM 415 **Dissertation Based on Literature Research**

The dissertation will be based on literature research of a given area and would be expected to occupy one-fifth of a student's programme.

Introductory reading will be necessary early in the course to bring students to a level where they can appreciate the most recent work in their topic. The dissertation will be conducted under the guidance of a chemistry faculty member on a topic other than the student's research topic in CHM 419.

*Pre-requisite:* P.I. and CHM 220E, 330E, 340E

*Instructor:* Staff

CHM 419 **Introduction to Research in Chemistry**

An experimental or theoretical research problem in chemistry under the supervision of a member of the chemistry staff. The total time involved would be of the order of 250 hours, and students, in addition to carrying out research on their own projects, would be encouraged to participate fully in the activities of their chosen research groups. A final report incorporating the aims and results of this research will be required.

*Co-requisite:* At least one 400-level chemistry course and P.I.

*Instructor:* Staff

## CLASSICS

Faculty Adviser: Professor T. G. Elliott

Classics is the study of the civilizations of Greece and Rome. Courses are offered in four general areas: (1) Greek and Roman History (GRH). Courses offered in this area require no knowledge of the original languages. Upon petition to the Department of History students may receive credit for these courses toward the specialist degree in History. (Consult the regulations of the Department of History). (2) The masterpieces of ancient literature, read in translation (GLL). (3) Latin language and literature studied in the original (LAT). (4) Greek language and literature studied in the original (GRK).

Whether the student approaches Classics in the original languages or in translation, he will be introduced to intelligent people of another society trying to meet basic and universal issues. The efforts of these people are of interest in their own right. But they are also interesting in that they have been the foundation of so many aspects of our own civilization; of art, literature, philosophy, government. It is probably the value of Classics as a background for civilized thought in general which has produced the traditional opinion that it is a suitable preparation for a wide variety of careers. The student who is mainly interested in other subjects will find that courses in Classics present background material which is indispensable for the understanding of other studied in the Humanities, and thus for the understanding of our own civilization.

For a specialist programme a student is required to take ONE full course (or its equivalent in half courses) in first year, in each of GRK and LAT. In the three upper years TWO courses (or equivalent) are required in each language.

For programmes in Latin, or Greek, or Greek and Roman History, consult the Department.

In programmes in Latin and another subject (except Greek) the Latin component will be very similar to the Latin component of the Classics programme. Consult the Department of Classics and the Department teaching the other subject.

### GRK 100      **Introductory Greek, 3T**

A course designed to acquaint the student with the essentials of the Ancient Greek language and to introduce him to Greek Literature.

*Instructor:* TBA

### GRK 120F      **Socrates on Trial, 3T**

A reading of Plato's *Apology of Socrates*. The course includes further study of the Greek language.

*Pre-requisite:* XIII Greek or GRK 100

*Instructor:* TBA



- GRK 123S     **The Wanderings of Odysseus, 3T**  
 A reading of Homer's *Odyssey*, Books 6, 9, 11. The course includes further study of the Greek language.  
*Pre-requisite:* XIII Greek or GRK 100  
*Instructor:* TBA
- GRH 100     **Greek and Roman Civilization**  
 Its political, economic and cultural evolution, beginning in an age of independent city-states, reaching rich maturity in the Hellenistic age of Great Powers, and culminating in the multiracial and multicultural Roman empire. Its place in world history.  
*Exclusion:* GRH 200/201/300 if taken in the same year of study  
*Instructor:* (WES) T. G. Elliott
- GRH 101E     **The Classical Ideal and the Classical Experience, 2L, 1T**  
 An introduction to Greek and Roman History. The origins, operation and development of ancient social and political institutions; classical political theory; the crisis of the ancient civilization; classical culture and Christianity, are the themes presented.  
*Instructor:* T. G. Elliott
- GRH 216     **Alexander the Great and the Hellenistic Age, 2T**  
 (1) The course will examine the career and achievements of Alexander, and the shape of the world that resulted from his conquests.  
*Instructor:* C. I. Reid
- GRH 218     **Religion in the Roman Empire, 2T**  
 (1) A study of the different religious systems and beliefs competing for men's allegiance in the Roman world of the first four centuries A.D. Classical paganism and its cults; emperor worship; the philosophical alternatives to religion; astrology; the mystery religions and Mithraism; the rise of Christianity and the development of its teachings and institutions within the social context of their times; official and popular reactions to Christianity—conversion, opposition, persecution, and the eventual establishment of Christianity as the Empire's sole religion.  
*Instructor:* R. L. Beck  
*Instructor:* (WES) R. L. Beck
- GRH 300     **The Roman Empire, 2L, 1T**  
 Constitutional, economic, social, military and religious developments in the empire, from Augustus to St. Augustine.  
*Instructor:* T. G. Elliott  
 See also HIS 485 and HIS 486.



- GLL 190      **Greek and Roman Religion and Mythology, 2L, 1T**  
 The myths of Greece and Rome will be studied in connection with the religion of the ancient world. Attention will be focussed on the origin and development of the most important myths and their significance as inspiration for art and literature. In addition, the course will include discussion of different schools of interpretation of myth, and comparison of Greek and Roman myths to those of other cultures, particularly of the Near East and Northern Europe.  
*Instructor:* C. I. Reid
- GLL 200      **Greek Drama in Translation, 2T**  
 (I)      A study of Tragedy and Comedy in ancient Greece. Reading and discussion of selected plays of Aeschylus, Sophocles, Euripides, Aristophanes and Menander.  
*Instructor:* R. L. Beck
- LAT 100      **Introductory Latin, 3T**  
 A course designed to acquaint the student with the essentials of the Latin language and to introduce him to Roman Literature.  
*Instructor:* TBA
- LAT 120F      **The Poetry of Catullus, 3T**  
 Selections from the works of Catullus, including both his love poems and his satiric epigrams. Includes further study of the Latin language.  
*Pre-requisite:* XIII Latin or LAT 100  
*Instructor:* R. L. Beck
- LAT 121S      **The Poetry of Horace, 3T**  
 Selections from the *Odes* of Horace, with particular emphasis on the literary quality of Horace's lyric poetry. Includes further study of the Latin language.  
*Pre-requisite:* XIII Latin or LAT 100  
*Instructor:* R. L. Beck

### COMMERCE

Faculty Advisers: H. E. McCandless, M. S. Sommers

The objective of the programme in Commerce is to help students develop the analytical and problem-solving abilities required for effective decision-making in business, industry, governmental and other agencies and society in general. Those students who pursue the B.COM. programme at Erindale will have the opportunity to develop managerial skills in general as well as professional skills in accounting. Graduates of the programme have traditionally pursued careers in accounting and

finance as well as undertaken graduate studies in law, management and economics.

Students who emphasize other subject matter in their degree programmes find that Commerce courses are useful for both understanding commercial operations in Canada and the development of the skills of analysis and decision-making vital in many areas of endeavour which involve the planning, organizing and controlling of activities.

The basic Commerce courses (COM 100 and COM 221/222) introduce accounting systems and the bases for information systems for management. Other courses (300 and 400 level) examine structures, processes and problems in areas such as organizational behaviour, managerial operations in public and private organizations, marketing, the legal environment of business, accounting and taxation principles and practices and financial management.

For those interested in professional accounting, some of the Commerce courses qualify for credits in the programme in chartered accountancy offered by the Institute of Chartered Accountants of Ontario.

The B.COM. programme, which is now available at Erindale for all four years of study, is a 23 course programme featuring five courses in the first year (COM 100, ECO 100 and MAT 135 are advised) and six courses in each of the subsequent years. Interested students should obtain a programme description ("The B.COM. at Erindale") and consult the Faculty Advisers.

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|----------|--|
| COM 100  | <p><b>Financial Accounting, 2L, 1T</b></p> <p>Emphasis is placed on the principles and concepts which underlie the preparation of financial statements. Problems of income measurement are also stressed.</p> <p><i>Instructor:</i> TBA</p> <p><i>Instructor:</i> (SES) TBA</p>  |
| COM 221F | <p><b>Management Accounting, 2L</b></p> <p>Management control is introduced through case discussion and a computerized management game. Topics include the relationship between cost, volume and profit; the elements of cost; overhead allocation; job order costs; process costs; budgeting; predetermined costs; and absorption and direct costing.</p> <p><i>Pre-requisite:</i> COM 100</p> <p><i>Instructor:</i> H. E. McCandless</p> <p><i>Instructor:</i> (WES) TBA</p> |
| COM 222S | <p><b>Information Systems and Control, 2L</b></p> <p>Includes information system theory, control theory and practice, relevant costs, responsibility accounting, and a survey of selected management science techniques. Through case discussions, the</p>   |

inter-relationships between information and control systems, managerial style and human behaviour are established.

*Pre-requisite:* COM 221F

*Instructor:* H. E. McCandless

*Instructor:* (WES) TBA

**COM 300      The Legal Environment of Business, 2L**

The course has two main purposes: to develop an approach to reaching decisions objectively, and to examine how the law, as an institution, accommodates business convenience and social policy. In addition, the nature of legal devices that are commonly encountered in the operation of a business is examined. The lecture periods take the form of class discussion of cases and of topical matters related to business law. Open to Second Year students at the discretion of the instructor if space is available and pre- and co-requisites are satisfied.

*Pre-requisite:* ECO 100

*Co-requisite:* COM 222s and P.I.

*Instructor:* TBA

**COM 320      Financial Accounting Theory and Policy, 2L**

An extension of financial accounting topics previously covered. Emphasizes areas of current concern such as: inventory valuation; accounting for fixed assets and intangibles; corporate reorganizations; and inter-corporate investments. The case method of instruction is used extensively.

*Pre-requisite:* COM 222s

*Instructor:* TBA

**COM 323      Introduction to Public Administration, 2L, 1T**

The literature of public administration and some of the main issues of the present and recent past in Canada (and to a limited extent in Britain and other countries) is discussed. In other countries primary emphasis will be on policies or features that have influenced Canadian practice.

*Pre-requisite:* COM 100 or POL 100

*Instructor:* TBA

**COM 332E      Organizational Behaviour, 2L**

Examines how the interrelationship between tasks, authority positions and the needs of the individual governs effectiveness in organizations. Students will consider problems of organization structure, interpersonal relations, attitudes, conflict and the management of

change. The course also examines the relationships of organizations and their environments. Assigned reading, case studies and role-playing exercises are used. Limited enrolment. May not be combined with COM 401.

*Pre-requisite:* COM 222s/P.I.

*Instructor:* H. E. McCandless

COM 400     **Marketing, 2L**

Deals with the structures and processes of the marketing system in the Canadian context. Areas of emphasis are consumer behaviour, marketing research and managerial decision-making in product policy, promotion and distribution.

*Pre-requisite:* COM 222s/P.I.

*Instructor:* M. S. Sommers

COM 421     **Corporation Finance, 2L, 1T**

Explains the financial environment within which Canadian companies operate, develops the main principles of financial management, and examines the social and legal significance of the corporation as one of the dominant institutions of modern society.

*Pre-requisites:* COM 222s and ECO 202

*Instructor:* TBA

COM 423     **Canadian Business Taxation, 2L**

Designed to provide an introduction to both the technical provisions and broad policy issues involved in taxation of business enterprises in Canada. Emphasizes both the underlying social and economic policy issues of taxation and the understanding of technical income tax provisions.

*Pre-requisite:* COM 222s

*Instructor:* TBA

COM 426E     **Canadian Management and Its Environment, 2L (May not be offered in 1973-74)**

The first half deals with the manager and the internal environment of the firm in terms of the strategic issues of goal setting, organizational management and the control of operations as a function of changing domestic social and economic conditions. The second half deals with managerial problems which are a function of the changing international environment. Topics included are problems of managing operations abroad, problems of dealing with subsidiaries and parents, the impact



of foreign patterns of investment and competition, government and supra-national regulation of managerial activities.

*Pre-requisite:* COM 222s and ECO 202

*Instructor:* TBA

## COMMUNICATIONS

Faculty Adviser: Professor P. P. M. Meincke

### CMM 220ES **Communications I, 2L**

- (1) Bits, Bytes and Bandwidth, Shannon's Theorem. Fundamental physical limitations on information transfer. **IMPACT OF TECHNOLOGY**—telephone, radio, TV cable. New storage techniques such as magnetic bubbles, holograms, etc. Computers, new transmission techniques, lasers, superconductors, satellites, etc. **SOCIAL & PSYCHOLOGICAL IMPLICATIONS**—the city as a communications device. Effect of shopping, learning and working at home. Future Shock and Information Overload. Increased individuality. **ECONOMIC & POLITICAL IMPLICATIONS**—Economic limit on the rate of innovation. Data Banks and Privacy. Communications vs. Transportation. Costs. Impact on Energy Resources. **GOVERNMENT CONTROL & PLANNING**—The Telecommission Study, Von Baeyer Report. The Trans-Canada telephone system, CRTC and cable companies.

*Instructor:* P. P. M. Meincke

### CMM 320E **Communications II, 3L**

Designed to familiarize students with the media of radio, TV and printed material. The preparation of academic material for presentation within these media will be explored. Seminars and guest lecturers will be included in the curriculum.

*Instructor:* A. Rosenthal

### CMM 330E **Deviance, Stigma and Communication, 1L, 1T (First Term), 2T (Second Term)**

Three aspects of communication will be studied: (1) social deviance and its linguistic manifestations, e.g. identity management by use of special lexicons, professional jargons, *argots* ("slangs"), etc.; (2) identity manipulation and social stigma, i.e. the verbal aspects of the deviant-labelling process, e.g. name-calling, nicknames, "fighting-words" euphemisms, etc.; (3) deviant verbal behaviour by non-deviants, e.g. swearing, four-letter word games, pidgins, faddish and abusive borrowings from foreign languages, etc. The



bulk of the work will be related to English speaking countries but attempts will be made to establish some universals of deviance and communication.

(The course will be structured to include one lecture and one tutorial in the first term. Specialists in related fields have agreed to give guest lectures and to participate in discussions. In the second term students will undertake “field research” and tutorials will be conducted during which progress and problems of research will be discussed. Enrolment limited to 20 students). *Open to students in second and higher years.*

*Instructor:* A. L. Stein

See also PHL 282s **Language and Communication, 2L**

### **COMPUTER SCIENCE** (See Under Mathematics)

### **DRAMA**

Faculty Adviser: Mr. J. Astington

Practical exploration of drama involves two related efforts of the imagination and intelligence: the understanding of the dramatist's or director's work in the play, and personal interpretation and creation of these effects in acting. The courses in drama given at Erindale deal with both these areas, and should appeal either to specialists in literature wishing to broaden their understanding of drama, or to students interested primarily in their own vocal and physical creativity, and its development.

**DRA 100E     European Drama, 1L, 1T (Not offered in 1973–74)**

Introduces the student to major non-English authors of western drama from its origins to the theatre of today. The course will consist of reading and discussion of a selection of works in translation (approximately 20 plays) by the following: Aeschylus, Sophocles, Euripides, Aristophanes, Plautus/Terence, Seneca, Lope de Vega/Calderon, Moliere, Racine, Goldoni, Goethe, Chekov, Ibsen, Pirandello, Lorca, Brecht, Ionesco, Genêt.

*Instructors:* R. L. Beck and D. A. Trott

**DRA 200E     Drama through Acting, 4p**

Covers some basic areas of acting direction and production, using a variety of play texts. Through rehearsal, students will be expected to explore the major problems of interpreting drama in practical terms. Private preparation for group meetings will be expected, as well as participation in public productions.

*Pre-requisite:* P.I.

*Instructor:* J. Astington

- DRA 300E    *Advanced Acting and Directing*, 4P** (Not offered in 1973–74)  
 Detailed work on acting technique and the interpretation of the play text. Students will be expected to work on their own to a considerable extent, in preparation of scenes for group discussion, and to work on productions arising from the course. The work of DRA 200E will be continued in a more advanced and intensive way.  
*Pre-requisite:* DRA 200E or equivalent. Enrolment limited  
*Instructor:* J. Astington  
 See also ENG 480E *Shakespeare's Stage*.

### **EARTH AND PLANETARY SCIENCES** **(Geology and Geophysics)**

Faculty Adviser: Professor H. C. Halls

The great and varied area of Canada and its extensive coasts make Geology and Geophysics important subjects in this country. The mining and petroleum industries which are among the country's largest have traditionally been major employers and are continuing to expand. In 1968 Canadian Universities provided only 35% of the geologists required in the country and nearly two-thirds of newly employed geologists came from abroad. There is always an unfulfilled demand for geophysicists.

In the past ten years worsening pollution problems, better understanding of the causes of such disasters as earthquakes and hurricanes, scientific expeditions to the moon and the realization that the continents are indeed drifting have aroused great interest in problems related to our physical environment.

To meet these needs and to train graduates for the many jobs which exist in Canada Erindale offers a broad spectrum of courses in the earth sciences. First year courses in all programmes are similar to permit deferment of decisions about specialization until students are aware of the range of possibilities within the earth sciences. Most of the elementary courses in geology and geophysics are open to all students but for those who wish to specialize in later years three streams are suggested below:

#### **(1) *Geology***

- Year I**    EPS 100E, MAT 110EF and 120ES or MAT 135, PHY 110 or PHY 120E,  
 plus two options (CHM 120E recommended).  
**Year II**    EPS 210E, EPS 230E, EPS 250E, plus two options.  
**Year III**    EPS 310EF, EPS 320ES, EPS 330EF, EPS 340ES, EPS 350EF, EPS 360ES,  
 plus two options.  
**Year IV**    EPS 420E, EPS 430E, plus three options.

#### **(2) *Geology and Geophysics***

- Year I**    EPS 100E, MAT 110EF and 120ES or MAT 135, PHY 110 or PHY 120E,  
 plus two options.

- Year II    EPS 210E, EPS 230E, EPS 250E, plus two options (MAT 244F and PHY 220E recommended).
- Year III    EPS 310EF, EPS 320ES, EPS 330EF, EPS 340ES, SUR 210E, plus two options (PHY 226E, APM 251ES or APM 246ES, CSC 108F recommended).
- Year IV    EPS 410E, EPS 420E, EPS 430F, plus two options.

### (3) *Geology and the Environment*

- Year I    EPS 100E, GGR 171E, MAT 110EF and 120ES or MAT 135, plus two options (CHM 120E, PHY 110 or PHY 120E recommended).
- Year II    EPS 210E, EPS 230E, EPS 240ES, plus 2½ options (EPS 220, GGR 202EF recommended).
- Year III    EPS 320ES, EPS 330EF, GGR 311E, GGR 373E, plus two options (GGR 375E, GGR 377EF, GGR 379ES recommended).
- Year IV    EPS 430E, GGR 471E, plus two options.

Because many geological and geophysical problems involve precise measurement of earth properties or processes, earth sciences are enhanced at Erindale by emphasis on outdoor studies and by the Survey Science programme.

The environmental geography programme offers a further wide selection of courses in natural resources, conservation, environmental management and remote sensing. Further combinations including links with Biology may be possible. Students are advised to consult members of the staff in Geology and Geophysics about specialization and selection of courses appropriate to specific interests.

#### EPS 100E    **Introduction to Earth Science, 1L, 1T, 3P**

An introduction to the properties and behaviour of the earth. Topics to be discussed include the shape, motion and internal structure of the earth; the fundamental physical and chemical processes occurring within it; and the changes in the earth's surface in response to these processes, of which sea floor spreading and continental drift are dominant.

*Pre-requisites:* XIII PHY and CHM recommended

*Instructors:* H. C. Halls, J. T. Wilson

#### EPS 210E    **Elementary Mineralogy and Petrology, 1L, 3P**

The classification of major rock-forming minerals and the use of crystal chemistry to explain their optical, morphological and physical properties. Description and identification of sedimentary, igneous and metamorphic rocks both in hand specimens and with the aid of the microscope. A one-day trip to mineral collecting localities on the Canadian Shield provides an opportunity to examine minerals in their natural setting.

*Pre-requisites:* XIII CHM, EPS 100E

*Co-requisite:* EPS 100E if not taken previously

*Instructor:* D. H. Gorman

**EPS 220E Evolution and Geochronology, 1L, 1T, 2P**

An introduction to nucleosynthesis, the age of the earth, the origin of life and a survey of isotope geochronology and evolution.

*Pre-requisite:* EPS 100E

*Instructors:* R. M. Farquhar and TBA

**EPS 230E Structural Geology, 1L, 1T, 3P**

The mechanical properties of crustal materials and their response to changing physical conditions; the geometry of geologic structures and reconstruction of their development.

*Pre-requisite:* EPS 100E

*Co-requisite:* EPS 210E

*Instructor:* TBA

**EPS 240ES Earth Processes and Man's Environment, 1L, 1T, 2P**

The interaction of man's activities with his physical environment; man as an instrument of geologic change. The course includes an examination of prediction and monitoring of volcanism and utilization of volcanic heat; earthquake prediction and control, slope stability and landslides; man-made landforms and their physical effects; fluid withdrawal and land subsidence; underground storage and waste disposal.

*Pre-requisite:* EPS 100E/GGR 171E/P.I.

*Instructor:* TBA

**EPS 250E Earth History, 1L, 3P**

An introduction to the principles and techniques used to establish ages of rocks. Examination of the rock record and of the earth processes which have operated through time. A one week trip to the Gaspé area immediately following final examinations is illustrative of the principles and techniques of field geological studies and amplifies many of the concepts studied.

*Pre-requisite:* EPS 100E

*Co-requisite:* EPS 210E

*Instructor:* TBA

**EPS 310EF Geophysical Methods, 1L, 3P**

An introduction to geophysical methods of studying the earth including the principles, instrumentation and interpretation of results.

These methods include measurements of gravity, the present and past geomagnetic field, natural seismic waves, terrestrial heat flow, the age of rocks by radiometric methods, and both seismic and electromagnetic waves which have been artificially generated.

*Pre-requisites:* EPS 100E, PHY 110/120E

*Instructor:* H. C. Halls

EPS 320ES **Marine Geology, 1L, 3P**

The morphology, structure and evolution of the ocean basins and the methods employed for studying them.

*Pre-requisite:* EPS 210E

*Instructors:* The Staff

EPS 330EF **Economic Geology, 1L, 1T, 3P**

An introduction to the genesis and occurrence of mineral deposits and the factors that determine their economic viability.

*Pre-requisite:* EPS 210E

*Instructors:* TBA

EPS 340ES **Mineral Exploration, 1L, 1T, 2P**

A course with some practical work in the field outlining the methods of geophysical and geochemical prospecting and their relative merits and limitations in the exploration for specific types of mineral deposits.

*Pre-requisites:* PHY 110/120E; EPS 210E

*Co-requisite:* EPS 310EF

*Instructor:* H. C. Halls

EPS 350EF **Principles of Paleontology, 1L, 1T, 2P**

The origin of life and evolution of the major groups of macro- and microfossils. Paleoecology, faunal communities and extinction. The spatial and temporal distribution of selected marine invertebrate groups in relation to global tectonics and continental drift.

*Pre-requisite:* EPS 220E

*Instructor:* TBA

EPS 360ES **Paleoenvironments, 1L, 1T, 2P**

Determination of ancient environments; their distribution in time and space, and their significance in relation to the evolution of the lithosphere and biosphere. A trip to the Florida-Bahamas area will illustrate modern sedimentary processes and environments.

*Pre-requisite:* EPS 220E

*Co-requisite:* EPS 350ES

*Instructor:* TBA



- EPS 410E     **Advanced Physics of the Earth, 1L, 1T, 3P**  
 An advanced continuation of course EPS 310EF, with particular attention to the structure and behaviour of the earth's interior as deduced by geophysical methods.  
*Pre-requisites:* EPS 310EF, PHY 220E  
*Instructor:* D. J. Dunlop
- EPS 420E     **The Evolution of the Earth's Crust, 2L, 3P**  
 An outline of world geology based particularly upon comparative studies of shields, platform and shelf deposits, mountain belts, island arcs and ocean basins. A series of day field trips to examine Precambrian rocks will illustrate concepts and approaches discussed in the Geology programme.  
*Pre-requisites:* EPS 230E, 310EF  
*Co-requisites:* EPS 350EF and 360ES  
*Instructors:* J. T. Wilson and TBA
- EPS 430E     **Frontiers of Earth Science, 1L, 2T**  
 A seminar course which examines new concepts and models in earth science.  
*Pre-requisites:* Any four half-courses from EPS 310–360 inclusive  
*Instructors:* The Staff
- EPS 440E     **B.Sc. Thesis (2 course credits)**  
 A student research project, under the supervision of the staff. Copies of thesis are to be submitted by March 1st.  
*Pre-requisites:* As for course EPS 420E  
*Instructors:* The Staff

## ECONOMICS

Faculty Adviser: Professor M. J. Hare

Economics is a social science; that is, it is an exploration of the behaviour of people in society. It has a strong influence on the structure, well-being and development of a society. More specifically, Economics studies the ways in which the resources of a country (capital, labour, land and natural resources) are allocated between industries to efficiently produce the range of goods and services provided in the country each year. The decisions of what to produce, of production methods, and how to distribute the goods and services provided must be made in each country irrespective of the political organization of the government in that country. Allocative decisions are made according to traditional patterns and customs; by government

decree, policies and planning, and finally by the allocative mechanisms inherent in the price system.

At the aggregate level Economics considers such problems as the excessive levels of unemployment and inflation in the Canadian economy, and analyzes policies which can mitigate these burdens. The study of Economics also assesses the fairness of the tax burden, and the degree to which government spending can be justified. At a more micro or disaggregated level, economic analysis considers the determination of economic efficiency in different types of industry (e.g. oligopoly, and pure competition); the impact of anti-trust regulations, and the determination of prices of both outputs and inputs through the forces of supply and demand. Economic assessments of international trade patterns, tariffs and the consequences of foreign direct investment are also integral.

In addition, economic analysis focuses on such issues as pollution, poverty, the rate of economic growth and urbanization, regional disparities and custom unions, topics which are ubiquitous in today's Canadian newspapers.

The course sequence in Economics at Erindale is intentionally designed to accommodate the interests of both students who wish to specialize in this discipline, and concomitantly, to those who wish a broader assessment.

Specialists in Economics may proceed either into the Programme in Commerce and Finance, an internationally acknowledged joint major in Commerce and Economics, which is now offered at Erindale College, or separately in a Four Year "specialist programme" which requires at least eight full courses in Economics plus one each in Statistics and Mathematics. Students who complete the requirements for the "specialists" programme will have this certification indicated on their diplomas. Those who wish to become "specialists" in Economics should have attained a B-plus average in their courses in Economics in the First and Second Year and must register with the Faculty Adviser at the start of their Third Year.

At Erindale, "specialists" must take *all* of the following during the second, third and fourth years: ECO 200; ECO 202E; STA 232/ECO 220/STA 202EF and ECO 230ES; ECO 326F and 325S; ECO 322; at least one full course in Economic History, and ECO 423—Senior Research Seminar in Economics.

For the "generalist", in addition to ECO 100 (Introduction to Economics), the curriculum includes four full courses (including Economic History) which are not highly theoretical and which carry only an ECO 100 pre-requisite.

Students frequently engage in joint majors of Economics and Political Science, Commerce, History, Geography, Mathematics and Sociology. A sequence in Economics is also suitable for those concentrating in the physical sciences.

Students who concentrate in Economics frequently continue into graduate work in Business or Economics, or proceed into Law, Chartered Accountancy and many other areas of industry and government. Scientists, doctors, musicians and even potential astronauts who have been exposed to a series of courses in Economics develop a more sophisticated comprehension of the principal economic issues which

confront society. Concomitantly those who have been exposed to a hard-core diet of rigorous economic analysis will find that it enhances their decision-making processes.

First year preparation includes ECO 100 (Introduction to Economics) and for the “specialists” either MAT 134E or MAT 110EF and MAT 120ES depending upon the student’s high school attainment and aptitude in mathematics.

**ECO 100 Introduction to Economics, 3L, 1T**

A survey course with emphasis on the basic concepts in macro and micro economic theory; international trade and the techniques economists use to analyse problems. The concepts introduced will include: national income and its determination; monetary and fiscal techniques; business cycle determination; the derivation and use of supply and demand schedules; the theory of the firm and principles of comparative advantage and tariff protection.

*Instructors:* A. W. Donner, S. M. Eddie, J. E. Pesando

*Instructor:* (SES) TBA, (WES) M. J. Hare

**ECO 200 Micro-Economic Theory, 2L, 1T**

An intermediate treatment of the basic tools of economic analysis with applications to a wide variety of economic problems in the area of pricing, resource allocation, income distribution, and welfare economics. May not be combined with ECO 261E.

*Pre-requisite:* ECO 100

*Instructors:* J. E. Floyd, J. A. Hynes

**ECO 201E Modern European Economic History, 2L**

The economic development of modern Europe, with emphasis on the industrialization process and agrarian change in major European countries with concentration on the period from 1750 to 1914.

*Co-requisite:* ECO 100

*Instructor:* S. M. Eddie

**ECO 202E Macro-Economic Theory, 2L, 1T**

A detailed discussion of the theory of output, employment and the price level; of the techniques available for achieving economic stability; of central banking and Canadian financial institutions and markets, and of foreign-exchange markets. May not be combined with ECO 261E.

*Pre-requisite:* ECO 100

*Instructor:* J. E. Pesando

*Instructor:* (SES) A. Donner, (WES) J. E. Floyd

- ECO 221E North American Economic History and Development, 2L**  
 An examination of the evolving patterns of economic development in North America. Comparative study of the growth experience of the major sectors will be undertaken with the objective of explaining leads and lags in these sectors.  
*Pre-requisite:* ECO 100  
*Instructor:* W. T. Easterbrook
- ECO 230ES Quantitative Methods in Economics, 2L, 1T**  
 This course covers the use of regression analysis in economic research. Since the emphasis is on the actual use of the technique, problem sets will contain actual economic data, and a short paper will be required at the end of the course. A knowledge of probability and statistics at the level of STA 202EF is assumed. May not be combined with STA 232.  
*Pre-requisites:* STA 202EF and ECO 100  
*Co-requisite:* ECO 200 or P.I.  
*Instructor:* S. A. Rea
- ECO 260ES The Economics of Environmental Deterioration, 2L**  
 An analysis of the misallocation of resources caused by different types of pollutants. The course will stress both economic analysis and case studies.  
*Pre-requisite:* ECO 100 or P.I.  
*Instructor:* M. J. Hare
- ECO 261E Contemporary Canadian Economic Issues, 2L**  
 This course is designed to offer students an insight into the economics of various public issues from a global and specific point of view. In the process the student will increase his understanding of the decision-making process, as well as the government impact on the structure of the Canadian economy. The course will focus on a series of contemporary economic issues among them: the position of the multi-national corporation, anti-trust policy, regional development programmes, hard-core unemployment and manpower training, ecology versus economic growth, urbanization, poverty and income support plans, the provision of medical services, and inflation-unemployment trade-offs. Cannot be combined with ECO 200 or ECO 202E.  
*Pre-requisite:* ECO 100  
*Instructor:* A. W. Donner



- ECO 262E     **Comparative Economic Systems, 2L** (Not offered in 1973–74)  
 This course will critically analyze the merits of the capitalist and socialist economic orders with respect to resource allocation and economic efficiency.  
*Pre-requisite:* ECO 100  
*Instructor:* TBA
- ECO 322E     **History of Economic Thought, 2L** (Not offered in 1973–74)  
 After a brief summary account of scholastic and mercantilist economics, the lectures will trace in some detail the development of analytical economics from the eighteenth century with special emphasis upon the work of the Physiocrats; Adam Smith; the British Classical School (particularly T. R. Malthus, David Ricardo, and J. S. Mill); the “marginalists” (particularly W. S. Jevons, C. Menger and L. Walras) and Marx. Later developments will be examined if time permits. A number of methodological issues are raised, particularly the relationship between economic events and economic theory, and the question of “bias” in economics.  
*Pre-requisites:* ECO 200 and ECO 202  
*Instructor:* TBA
- ECO 324E     **Economic Development, 2L** (Not offered in 1973–74)  
 Emphasis is on the economic conditions of low-income countries and the prospects of their economic transformation. Frequent reference will be made to specific issues affecting the nations of Africa, Asia and Latin America.  
*Pre-requisites:* ECO 200 and 202E or P.I.  
*Instructor:* M. J. Hare
- ECO 325S     **Advanced Economic Theory—Macro, 2L**  
 To develop analytical skills in constructing and solving macro-economic models with particular reference to the Canadian economy.  
*Pre-requisite:* ECO 202 and MAT 134 (or equivalent) or P.I.  
*Instructor:* M. A. Fuss
- ECO 326F     **Advanced Economic Theory—Micro, 2L**  
 The course focuses on theories and techniques of decision-making by firms and households. It examines the problem of measuring economic welfare, and the merits and shortcomings of the market mechanism in promoting it.  
*Pre-requisite:* ECO 200 and MAT 134 (or equivalent) or P.I.  
*Instructor:* M. A. Fuss



- ECO 328 International Economics and Policy, 2L**  
 An analysis of the nature, effects and policy implications of international trade and finance. The theories of comparative costs and reciprocal demand; factor reward equalization; balance of payments and foreign exchanges; international tariffs; liquidity; customs unions; and relevant topics related to current problems in international economic affairs.  
*Pre-requisites:* ECO 200 and 202E or P.I.  
*Instructor:* J. A. Hynes
- ECO 336E Canadian Public Finance, 2L**  
 The construction of an economic theory of government to explain the determination of the budget and to provide an economic rationale for government intervention; an analysis of changing patterns of expenditure and revenue of federal and provincial governments; the development of criteria for the evaluation of expenditure programmes and the tax structure; the problems and techniques of fiscal stabilization.  
*Pre-requisites:* ECO 200 and ECO 202E or P.I.  
*Instructor:* A. W. Donner
- ECO 350E Applied Microeconomic Theory, 2L (Not offered in 1973–74)**  
 This course will present a wide variety of applications of basic micro-economic theory to problems of conservation, public goods, monopoly and industrial organization.  
*Pre-requisites:* ECO 200 or P.I.  
*Instructor:* J. E. Floyd
- ECO 351EF Monetary Economics, 2L**  
 Detailed examination of monetary economics with emphasis on policy implications. Topics include: the Monetarist and Neo-Keynesian views of the transmissions mechanism; targets and indicators of monetary policy; foreign-exchange considerations, and rules versus discretion in monetary policy.  
*Pre-requisite:* ECO 202E or P.I.  
*Instructor:* J. E. Pesando
- ECO 352E Industrial Organization, 2L**  
 This course examines the allocative implications of market failure and the nature of oligopolistic and imperfectly competitive markets. Some emphasis will be placed on the Canadian anti-combines policy and the industrial implications of Canadian tariff policy.  
*Pre-requisite:* ECO 200 or P.I.  
*Instructor:* M. A. Fuss

- ECO 360E **Economic Transformation and Technological Change, 2L**  
 An analysis of secular growth patterns in the industrial countries with emphasis on technological change and productivity increases.  
*Pre-requisites:* ECO 200 and 202E or P.I.  
*Instructor:* M. J. Hare
- ECO 361EF **Labour Economics and Labour Relations, 2L**  
 This course examines the structure and government of trade unions and the collective bargaining process in Canada. May not be combined with ECO 244 (Industrial Relations).  
*Pre-requisite:* ECO 200 or P.I.  
*Instructor:* A. Kruger
- ECO 362ES **Economics of the Labour Market, 2L**  
 This course reviews labour market behaviour and wage determination. The determinants of the supply and demand for labour and patterns of unemployment are analyzed in detail. Relationships between labour market conditions and the size of wage bargains are studied, and proposed government policies to control the rate of wage increases are examined.  
*Pre-requisite:* ECO 200 or P.I.  
*Instructor:* S. A. Rea
- ECO 364EF **The Economy of the U.S.S.R.—I, 2L** (Not offered in 1973–74)  
 The course begins with a history of the Soviet economy. It then analyzes the main economic institutions and policy instruments (planning, industrial organization, fiscal and monetary policy, price policy) and surveys some important economic and functional sectors such as agriculture, industry, transportation, labour, and consumption. Finally, we study the major attempts to measure Soviet performance and consider the important problems facing the economy today.  
*Pre-requisites:* ECO 200 and 202E or P.I.  
*Instructor:* TBA
- ECO 365ES **The Economy of the U.S.S.R.—II, 2L** (Not offered in 1973–74)  
 Description same as ECO 364EF.  
*Pre-requisite:* ECO 364EF  
*Instructor:* TBA
- ECO 366E **Agriculture and Economic Growth: Theory, History, Policy, 2L, 1T** (Not offered in 1973–74)  
 The role of agriculture in economic growth, including analysis of models of agricultural development and land tenure and their effects

on overall economic growth. Case studies to be drawn primarily from experience of European and East and Southeast Asian countries.

*Pre-requisite:* ECO 200 or P.I.

*Instructor:* S. M. Eddie

- ECO 367E **Introduction to Econometrics**, 2L, 1T (Not offered in 1973–74)  
A first course in econometrics, emphasizing the use of regression analysis in economic research. A variety of current policy issues will be used to illustrate the application, problems, and limitations of econometric methods. Students will be required to write a major essay, in which they will employ the regression techniques developed in the course.

*Pre-requisites:* ECO 200, ECO 202, ECO 230ES or STA 232

*Instructor:* J. E. Pesando

- ECO 368EF **Economics of Poverty**, 2L  
Economic influences on the extent of inequality and poverty in Canada will be examined. These will include aggregate income levels, unemployment, inflation, regional development, education, low wage employment, and discrimination. Canadian policies that affect the incidence of poverty are evaluated, and proposed programmes are critically analyzed.

*Co-requisites:* ECO 200 and ECO 202 or P.I.

*Instructor:* S. A. Rea

- ECO 400E **A Reading Course for Specialists**  
Admittance only by permission of the faculty in Economics.

## ENGLISH

Faculty Adviser: Professor R. Van Fossen

The study of English engages the mind, imagination and sensibility of the student in the literature of the English-speaking world, and in related literatures, both classical and modern. English literature, from its beginnings (about the seventh century) to the present, is a continuous tradition that reflects the vitality of an entire civilization—its political, social, religious, scientific, and cultural life—and, in addition, presents a permanent record of the ways in which the human mind and imagination have responded to recurrent problems and situations. Each age gives rise to its own peculiar problems and the literature of the past and of our own day can cast light upon the present and indeed upon the future. Literary studies can provide us with a fuller knowledge of ourselves and our world and with deeper insight into the nature of human experience.

More particularly, the undergraduate study of English in this University prepares the student for more advanced work in the discipline. Appropriate standing qualifies the student for graduate study in accredited universities of this country, of the United States and of the United Kingdom. It prepares students for a Type A certification, work in journalism, in the publishing field, and for positions in business and in various departments of government.

Intending Specialists should consult the discipline representative or the Brochure of the combined Departments of English.

**Note:** First-year students are strongly advised to register for no more than two courses in English.

**Courses open to first- and second-year students and to students in higher years who have had no more than one previous course in English.**

**ENG 108      Forms of 20th Century Literature, 3L**

At least twelve and no more than fifteen works by twentieth century authors, including works by at least three novelists, three poets and three dramatists. These shall include works by at least six of the following authors: Conrad, Faulkner, Joyce, Lawrence, Woolf; Auden, Eliot, Frost, Stevens, Yeats; Albee, Beckett, O'Neill, Pinter, Shaw.

*Instructor:* Staff

*Instructor:* (WES) TBA

**ENG 112      Major British Writers, 3L**

Selections from: Chaucer, Spenser, Shakespeare's non-dramatic poetry, Donne, Milton, Pope, Johnson, Wordsworth or Keats, Browning or Tennyson, Yeats or T. S. Eliot. Text: *The Norton Anthology of English Literature*, one volume ed. (Revised).

Alternative or additional texts may be assigned by the instructor. At least three plays, including one by Shakespeare; Swift, *Gulliver's Travels*; one novel, novella, or group of short stories by each of: Fielding, Dickens or George Eliot, and Joyce or James. Additional works may be selected.

*Instructor:* Staff

**ENG 120      Varieties of Fiction, 3L**

A study of selected fiction from various periods and genres, chosen to show the possibilities of fictional form and theme.

*Instructor:* Staff

**ENG 130      Varieties of Drama, 3L**

Approximately twenty plays to be chosen from the different historical periods and genres. Reading lists available from the Bookstore.

*Instructor:* U. Kareda



- ENG 150     **American Literature, 3L**  
 An introductory survey of major works in American literature. At least twelve works to be selected, including at least six written before 1900. The following will be studied early in the course: *Moby Dick*, *Huckleberry Finn*, *The Scarlet Letter*, Whitman, selected poems.  
*Instructor:* Staff
- ENG 152     **Canadian Literature in English, 3L**  
 An introductory survey of poetry, prose, and drama, including works by such authors as the following: Moodie, Lampman, Haliburton, Grove, Leacock, Pratt, Birney, Callaghan, MacLennan, Lowry, Laurence, Richler, Reaney, Cohen, Atwood. Recommended reading: *The Book of Canadian Prose* (ed. Smith); *Canadian Anthology* (ed. Klinck & Watters, 2nd edition).  
*Instructor:* Staff  
*Instructor:* (WES) M. J. Levene
- ENG 165     **English Literature: Forms and Approaches, 3L**  
 Focuses on particular works as representative of various kinds of literature (e.g., drama, poetry, novel) as well as critical approaches that have been developed for gaining a fuller understanding of literary works (e.g., structural analysis, study of imagery, psychoanalytic analysis). Texts: Shakespeare, *Hamlet*; Congreve, *The Way of the World*; selections from the poetry of Marvell; selections from the poetry of Hopkins; More, *Utopia* or Browne, *Religio Medici*; Emily Brontë, *Wuthering Heights*; Faulkner, *The Sound and the Fury*. Four more works which will extend the range of forms and make possible additional approaches.  
*Instructor:* Staff
- Courses open to second- and higher year students and to first-year students who are taking at least one 100-series course in English.**
- ENG 204     **Medieval Literature to 1500, 3L**  
 A study of the major works of medieval literature. Boethius, *Consolation of Philosophy*; *Beowulf*; Dante, *Inferno*; *Sir Gawain and the Green Knight*; selections from Chaucer. At least five of the following: *Chanson de Roland*; Chrétien de Troyes; Marie de France; Gottfried von Strassburg; *Roman de la Rose*; *Néjal's Saga*; *Pearl*; *Piers Plowman*; Malory; *Everyman*. Other texts to be selected. Chaucer and later English works will be read in the original.  
*Instructor:* TBA



- ENG 206 English Literature: More to Milton, 3L**  
 Poetry: Sidney, Spenser, Shakespeare, Donne, selected poems; Spenser, *The Faerie Queene*, selections. At least three of Jonson, Herrick, Herbert, Marvell, Vaughan, selected poems and Milton, selected minor poetry; Milton, *Paradise Lost*, selections. Drama: Three non-Shakespearean plays. Shakespeare, two plays. Prose: Two or more of More, *Utopia*, Erasmus, *Praise of Folie*, Machiavelli, *The Prince*, Castiglione, *The Courtier* (trans. Hoby), Montaigne, *Essayes* (trans. Florio), Sidney, *An Apology for Poetry*. At least two of Bacon, Donne, Milton, Browne, selected prose. Additional reading may be selected.  
*Instructor:* Staff
- ENG 207 Nineteenth-Century English Literature, 3L**  
 Selected works of twelve writers illustrating the nature and range of English poetry, fiction, and prose in the nineteenth century. At least four authors will be chosen from Scott, Jane Austen, Wordsworth, Coleridge, Byron, Shelley, Keats; and at least four from Carlyle, Newman, Mill, Tennyson, Thackeray, Dickens, George Eliot, Ruskin, Arnold, Meredith, and Hardy. Not more than three novels will be read.  
*Instructor:* T. H. Adamowski
- ENG 212 Shakespeare, 3L**  
 Special study of *Romeo and Juliet*, *A Midsummer Night's Dream*, *Richard II*, *Henry IV*, Parts I and II, *Twelfth Night*, *Measure for Measure*, *Hamlet*, *Antony and Cleopatra*, *The Tempest*. Additions or substitutions may be made by the instructor. Duplication with English 332 will be avoided.  
*Instructor:* Staff  
*Instructor:* (SDS) V. A. De Luca
- ENG 218 Major American Authors, 3L**  
 An intensive study of at least four and no more than six authors. At least three of the authors will be drawn from the following list: Cooper, Emerson, Hawthorne, Melville, Whitman, Twain, James, Eliot, Frost, Hemingway, Stevens and Faulkner.  
*Instructor:* Staff
- ENG 256 Canadian Fiction, 3L**  
 Selections from an anthology of short stories. A minimum of twenty works including at least one work by eight of the following authors: Haliburton, John Richardson, Sara Jeannette Duncan, Leacock, Grove, Callaghan, MacLennan, Lowry, Laurence, Susannah Moody,

Richler. French Canadian fiction in translation may be included.

*Pre-requisite:* One previous course in English

*Instructor:* M. J. Levene

### **Courses open to second- and higher-year students**

- ENG 302     **English Poetry and Prose, 1500–1600, 3L** (Not offered in 1973–74)  
 Poetry: Selections from the poetry of Wyatt and Surrey, Sidney, Marlowe, Shakespeare, Spenser (including *The Faerie Queene*, Book I, at least two other books, and the *Mutabilitie Cantos*) and Donne. Other poets may be added. Prose: More, *Utopia*; Sidney, *Defence of Poesy*. Selections from at least two of the following writers: Elyot, Ascham, Hakluyt, Hooker, Lyly, Sidney (*Arcadia*), Nashe and Deloney. Additional reading from the following: Erasmus, *Praise of Folly*; Castiglione, *The Courtier*; Machiavelli, *The Prince*; Ariosto, *Orlando Furioso*.  
*Pre-requisite:* one previous course in English  
*Instructor:* Staff
- ENG 304     **English Poetry and Prose, 1600–1660, 3L** (Not offered in 1973–74)  
 Selected poetry of Donne, Jonson and their successors; Milton. Prose by such writers as Bacon, Browne, Burton, Milton, Traherne.  
*Pre-requisite:* one previous course in English  
*Instructor:* Staff
- ENG 306     **English Poetry, Prose and Drama, 1660–1800, 3L**  
 Selections from the works of at least ten of the following: Addison, Boswell, Burke, Burns, Butler, Collins, Congreve, Cowper, Defoe, Dryden, Gay, Gibbon, Goldsmith, Gray, Halifax, Johnson, Pepys, Pope, Prior, Rochester, Sheridan, Smart, Steele, Swift, Thomson, Horace Walpole, Wycherley, Young.  
*Pre-requisite:* one previous course in English  
*Instructor:* B. Corman  
*Instructor:* (WES) B. Corman
- ENG 308     **Romantic Poetry and Prose, 3L**  
 Blake, Wordsworth, Coleridge, Byron, Shelley, Keats for special study; brief selections from other poets of the period such as Crabbe, Scott, Landor, Clare; Wordsworth, *Preface to Lyrical Ballads*, *Preface to the Edition of 1816*; Coleridge, *Biographia Literaria*; Shelley, *Defence of Poetry*; Keats, Selected letters; selected writings of Lamb and Hazlitt.  
*Pre-requisite:* one previous course in English  
*Instructor:* V. A. De Luca

- ENG 312     **Chaucer, 3L**  
*Troilus and Criseyde*; selections from the *Canterbury Tales*; further selections from Chaucer's work.  
*Pre-requisite*: one previous course in English  
*Instructor*: TBA
- ENG 322     **Fiction before 1832, 3L**  
 At least twelve works, including one or more by each of Richardson, Fielding, Sterne, Jane Austen and Scott.  
*Pre-requisite*: one previous course in English  
*Instructor*: TBA
- ENG 324     **Fiction, 1832–1900, 3L**  
 At least twelve works, including one or more by each of Dickens, Thackeray, Trollope, Emily Brontë, George Eliot and Hardy.  
*Pre-requisite*: one previous course in English  
*Instructor*: TBA
- ENG 328     **Modern Novel, 3L**  
 At least fifteen works chosen from the period c. 1900–c. 1945 including one or more by each of the following: James, Conrad, Joyce, Lawrence, Faulkner.  
*Pre-requisite*: one previous course in English  
*Instructor*: Staff
- ENG 332     **English Drama to 1642, 3L** (Not offered in 1973–74)  
 Examples of the miracle play, the morality play, the Tudor interlude, early Tudor and Elizabethan tragedy, comedy and romance; Marlowe: two or more plays; Shakespeare: at least seven of the following: *Love's Labours Lost*, *Richard III*, *Much Ado About Nothing*, *As You Like It*, *Troilus and Cressida*, *Othello*, *Macbeth*, *King Lear*, *Coriolanus*, *The Winter's Tale*; two plays by Jonson, and a selection of works by at least six other Jacobean dramatists.  
*Pre-requisite*: one previous course in English  
*Instructor*: Staff
- ENG 338     **Modern Drama** (Offered Friday 5:00–7:00 p.m.)  
 A minimum of twenty representative modern plays including one or more by at least five of the following: Ibsen, Chekhov, Shaw, Synge, Yeats, O'Casey, O'Neill, Eliot, Beckett, Pinter.  
*Pre-requisite*: one previous course in English  
*Instructor*: U. Kareda

- ENG 348     **Modern Poetry, 3L**  
Hopkins, Yeats, Pound, Eliot, Stevens and other poets.  
*Pre-requisite:* one previous course in English  
*Instructor:* R. Rower  
*Instructor:* (SDS) R. Rower
- ENG 351     **Topics in American Literature, 3L**  
A study of one or more special topics in American literature, e.g., thematic, stylistic, or theoretical approaches; genre studies; detailed studies of particular periods of literary movements; the relationships between American writing and American social and intellectual history.  
*Instructor:* T. H. Adamowski  
*Instructor:* (WES) T. H. Adamowski
- ENG 354     **Canadian Poetry, 3L** (Not offered in 1973–74)  
A minimum of fifteen poets from the nineteenth and twentieth centuries, at least nine of which to be chosen from the following: Crawford, Carman, Lampman, D. C. Scott, Pratt, F. R. Scott, A. J. M. Smith, Birney, Klein, Livesay, Layton, Avison, Purdy, Souster, Reaney. French Canadian poetry in translation may be included.  
*Pre-requisite:* one previous course in English  
*Instructor:* Staff
- ENG 368     **Victorian Prose, 3L** (Not offered in 1973–74)  
Selected works of at least seven of the following: Arnold, Bagehot, Borrow, Butler, Carlyle, Coleridge, Darwin, Gosse, J. R. Green, Huxley, Macaulay, J. S. Mill, Morley, Morris, Newman, Pater, Ruskin, Wilde.  
*Pre-requisite:* one previous course in English  
*Instructor:* Staff
- ENG 369     **Seminar in Writing, 3L** (Not offered in 1973–74)  
Restricted to students who, in the opinion of the Department of English, show special aptitude for writing. Admission at the discretion of the Instructor.  
*Pre-requisite:* one previous course in English  
*Instructor:* Staff
- ENG 390     **Individual Studies**  
*Instructor:* Staff

**Courses open to third- and higher-year students**

- ENG 466     **Comprehensive Examinations**  
For description consult Departmental brochure.



*Pre-requisite:* Normally *three* previous courses in English with at least “B” standing in *each* course

ENG 467     **Seminar in Literary Theory and Practice, 3L**

For description consult Departmental brochure.

*Pre-requisite:* Normally *three* previous courses in English with at least “B” standing in *each* course

*Instructor:* R. R. McLeod

ENG 469     **Senior Essay**

A scholarly project, chosen by the student, approved by the college department, and supervised by one of its instructors.

*Pre-requisite:* Open to fourth-year students only, who have at least “B” standing or better in at least three courses in English

*Instructor:* Staff

ENG 480E     **Shakespeare’s Stage, 3L**

A study of the working performance conditions under which the plays of Shakespeare and his contemporaries were produced. The course will include the study of the various forms of Elizabethan and Jacobean theatre, Elizabethan acting style, staging conventions, dramatic companies, and popular and court audiences. Several dramatic texts will be studied as theatrical rather than literary documents, and some practical work will be undertaken.

*Instructor:* J. Astington

## FINE ART

Faculty Adviser: Dr. L. Eleen

Through introductory courses in the visual arts, the student can gain insight into major art forms such as architecture, sculpture, and painting, and can concurrently discover and develop his own artistic potential in a variety of media.

In surveys of art history, by means of illustrated lectures, visits to galleries and museums, through reading and the study of reproductions, the student can become acquainted with the impact on art of major intellectual, religious, and social trends in past and present cultures. He will also develop an awareness of composition, colour, design, and technique. Such studies complement related disciplines, of which history, philosophy, and literature are examples.

Specialization in Fine Art can lead to professional work in galleries or museums, teaching at the high school or college level, careers in illustration and design, or independent artistic activities. For post-graduate work in the history of art, a reading knowledge of French and German and, depending upon specialization, Italian or Latin and Greek, is required; this can most easily be obtained during the undergraduate years.



A special programme in Art Education is conducted in co-operation with Sheridan College of Applied Arts and Technology. After three years of a combined Art History and Studio Art course the student will obtain a B.A. degree in preparation for teaching art in Ontario secondary schools. Credits in studio art are obtained by enrolling for such courses which are held at Sheridan College of Applied Arts and Technology. Selected students may enroll for up to *five* courses in Studio Art during their degree programme. The remaining arts and science credits will be taken from the regularly scheduled courses offered by Erindale College.

**FAR 101      Ancient Art, 2L, 1T**

A survey of the art of Greece and Rome. Emphasis is placed upon the importance of architecture and the arts as characteristic expressions of their age; this concept is illustrated by detailed study of the outstanding monuments.

*Instructor:* T. G. Elliott

**FAR 102      Medieval Art, 2L, 1T**

A selective survey of the art of Christian Europe. The study of Early Christian and Early and Late Medieval monuments will be combined with a more general introduction to the language of visual expression and its interpretation.

*Instructor:* TBA

**FAR 200      European Art from 1400 to 1750, 2L, 1T**

A selective survey of Renaissance, Mannerist, Baroque and Rococo Art in Northern and Southern Europe. The style and subject matter of architecture, sculpture and painting will be studied in relation to the cultural and intellectual environments in which they developed.

*Instructor:* L. Eleen

*Instructor:* (WES) L. Eleen

**FAR 201      European Art from 1750 to 1940, 3L**

A survey of modern art from the beginnings of Neo-Classicism to World War II, in architecture, sculpture and painting.

*Pre-requisite:* FAR 200

*Instructor:* TBA

**COURSES AT SHERIDAN COLLEGE**

FIRST YEAR — each course counts for one-half credit

**FAR 145E      F/S Drawing and Painting I\***

**FAR 146E      F/S Design I\***

FAR 147E    F/S **Photography\***

FAR 148E    F/S **Animation\***

**SECOND YEAR** — each course counts for one-half credit

FAR 243E    F/S **Film Media**

FAR 244E    F/S **Printmaking**

FAR 245E    F/S **Drawing and Painting II**

FAR 246E    F/S **Design II**

**THIRD YEAR** — each course counts for one-half credit

Any two of

FAR 346E    F/S **Ceramics**

FAR 347E    F/S **Furniture**

FAR 348E    F/S **Fabrics**

FAR 349E    F/S **Metal and Jewelry**

\*Also offered Summer Day Session. Consult Extension Office.

## **FRENCH**

Faculty Adviser: Professor H. H. Weinberg

The impact of French culture on the world as we know it has been profound and lasting. Indeed, no understanding of European and even North-American patterns of thought may be said to be complete without a prior understanding of the contributions made to these patterns by Frenchmen on both sides of the Atlantic. The French programme at Erindale College offers students a wide range of courses designed to provide both the tools and basic material for the study of our French heritage.

For students wishing to pursue a programme leading to a high level of competence in French, we offer a series of language courses (FRE 111, 120, 271, 371 and 471) using modern methods and maximizing the individual's contact with his instructor. For those wishing a full programme of French Studies, our introductory and upper-year offerings in linguistics and literature completely satisfy the requirements for a four-year specialist degree in French Language and Literature. These offerings include the study of French as a language system, the study of various critical approaches to literature, and the study of both French and French-Canadian literatures.

There is a great flexibility built into the programme, with few pre-requisites or co-requisites for most courses. In special cases pre-requisites will be waived if a student can satisfy the department that he is able to undertake the programme.

In addition to its usefulness as a means of communication, French can also lead to careers in the civil service, international agencies, translation and interpretation, and teaching, as well as to graduate study.

The *specialist programme* in French Language and Literature requires standing in a minimum of ten FRE courses taken as part of a four-year programme. (No more than two courses may be from each of the following groups: FRE 120, 140–142; and FRE 390, 391, 392F/s/Y). At least two courses must be chosen from those open to third-and-higher-year students and requiring a pre-requisite of FRE 271 or higher. A mark of at least 70% must be achieved in each of at least seven FRE courses. It is highly recommended that a student take at least four courses outside the French Department.

To fulfil the Department's requirements in language proficiency a student must: (a) pass a special University examination in written French, normally to be taken during the Third Year; and (b) pass a University oral examination, normally taken during the Third Year. To fulfil the Department's requirements in French linguistics a student must successfully complete at least one of FRE 372, 373, 374 or Independent Study (FRE 390, etc.) on a linguistic or stylistic topic. Students planning a teaching career are strongly encouraged to take FRE 372. To fulfil the Department's literature requirement a student must successfully complete at least four literature courses (not including FRE 120), one of which must be primarily devoted to texts prior to 1800, and one of which must be primarily devoted to texts after 1800. Students intending to take upper-level literature courses are urged to take FRE 140 or 142.

**FRE 111      Intensive French, 3T, 2P**

Designed to enable students without Grade XIII French to study the language. Intensive laboratory and class-room instruction in written and oral French. This course is a credit course, but may not be counted towards a specialist programme in French.

*Exclusion:* not open to students with Gr. XIII French

*Instructor:* J. Le Gall

**FRE 120      Introduction to University French Studies, 3T, 2P**

The major part of this course, designed to facilitate the acquisition of the linguistic skills necessary for active participation in courses offered by the department, is devoted to language practice. However, as well as class and laboratory work in language, attention may also be given to readings and discussions.

*Pre-requisite:* Gr. XIII French or FRE 111

*Instructor:* Staff

*Instructor:* (WES) TBA

**FRE 140      Studies in Modern French Literature, 1L, 1T**

Based on a detailed study of specific works selected from the novel, drama and poetry of the 19th and 20th centuries this course is intended as a practical introduction to the techniques of literary

criticism and analysis. Four novels, two plays and four collections of poetry will be selected from the works of Constant, Balzac, Stendhal, Hugo, Musset, Baudelaire, Verlaine, Mallarmé, Alain-Fournier, Apollinaire, Mauriac, Sartre, Camus, Eluard, Char, Anouilh, Ionesco, Butor, etc.

*Pre-requisite:* Gr. XIII French or FRE 111

*Co-requisite:* FRE 120

*Instructor:* TBA

**FRE 142     Man and Society in French Fiction, 1L, 1T**

Studies in 20th century French and French-Canadian fiction with special emphasis on the theme of man in society. Attention will also be given to techniques of literary criticism and analysis. Texts will be selected from the works of Gide, Malraux, Sartre, Camus, Savard, Roy, Langevin, Thériault, Ferron, etc.

*Pre-requisite:* Gr. XIII French or FRE 111

*Co-requisite:* FRE 120

*Instructor:* TBA

**FRE 271     Language Practice, 3T, 1P**

A continuation of FRE 120, this course is designed to further the student's competence in both written and oral French. The programme will include grammar, composition, debate and language laboratory work (corrective phonetics, pattern drills, etc.). Strongly recommended for both the specialist and the non-specialist.

*Pre-requisite:* FRE 120

*Instructor:* Staff

*Instructor:* (SDS) TBA

**FRE 320     The Literature of Classicism, 1L, 1T**

A study of the major writers of the 17th century with emphasis upon aesthetic and moral characteristics which constitute "classicism".

*Pre-requisite:* FRE 120

*Instructor:* P. R. Findlay

**FRE 322     Literature of the Enlightenment, 1L, 1T**

A study of the revolution in social, political, religious and intellectual values which characterized the literature of the 18th century. Its principal authors—Montesquieu, Voltaire, Diderot, Rousseau—raised issues which neither the Revolution nor the 20th century has satisfactorily resolved.

*Pre-requisite:* FRE 120

*Instructor:* A. L. Stein

- FRE 330      The Literature of French Canada to 1959, 1L, 1T** (Not offered in 1973–74)  
 A study of selected novels, drama and poetry. The texts will be studied from the historical, sociological and aesthetic points of view.  
*Pre-requisite:* FRE 120  
*Instructor:* C. Cloutier-Wojciechowska
- FRE 332      The Literature of French Canada from 1960 to the present** (offered Tuesday 4:00–6:00 p.m.)  
 A study of selected novels, drama and poetry.  
*Pre-requisite:* FRE 120  
*Instructor:* C. Cloutier-Wojciechowska
- FRE 352      French Drama from 1600 to 1800, 1L, 1T** (Not offered in 1973–74)  
 The comedies and tragedies of 17th-century France rank among the finest works of classical literature. The theatre of the 18th century is important in that it reflects a growing disenchantment with classical dramaturgy and the shift to realism that characterizes modern drama. Specific plays by Corneille, Molière, Racine, Lesage, Voltaire, Marivaux, Sedaine and Beaumarchais.  
*Pre-requisite:* FRE 120  
*Instructor:* D. A. Trott
- FRE 354      French Drama from 1800 to 1950, 1L, 1T**  
 A study of modern drama from the Romantics to the Existentialists. This course will attempt to trace the evolution of the French stage through a detailed study of plays by Hugo, Musset, Rostand, Feydeau, Jarry, Claudel, Ghelderode, Cocteau, Giraudoux, Anouilh, Sartre, Camus, etc.  
*Pre-requisite:* FRE 120  
*Instructor:* TBA
- FRE 362      Prose Fiction from 1600 to 1800, 1L, 1T** (Not offered in 1973–74)  
 A study of the evolution, in the 17th and 18th centuries, of the novel as a literary form and as a social phenomenon, using some of the most representative works of the period. Includes novels by Mme de La Fayette, Prévost, Voltaire, Diderot and Rousseau.  
*Pre-requisite:* FRE 120  
*Instructor:* P. R. Findlay
- FRE 364      Prose Fiction from 1800 to 1900, 1L, 1T**  
 A study, through the close analysis of specific texts, of the ways in



which such major writers as Balzac, Stendhal, Flaubert, Maupassant and Zola developed the techniques of the novel while exploring such varied themes as ambition, alienation and class struggle.

*Pre-requisite:* FRE 120

*Instructor:* H. H. Weinberg

- FRE 366     **Prose Fiction from 1900 to 1950**, 1L, 1T (Not offered in 1973–74)  
Includes the study of the works of Proust, Gide, Malraux and Sartre. Attention is focused on the ways in which 20th-century writers have experimented with the forms of the novel while exploring the intellectual and psychological conflicts of this century.  
*Pre-requisite:* FRE 120  
*Instructor:* H. H. Weinberg
- FRE 368     **Contemporary French Literature**, 1L, 1T (Not offered in 1973–74)  
A study of the novel and theatre since circa 1950 with special reference to “le nouveau roman” and “l’anti-théâtre”. This course will include works by Robbe-Grillet, Butor, Sarraute, Beckett, Ionesco, Genêt, and additional reading from other authors.  
*Pre-requisite:* Any French course numbered 271 or higher  
*Instructor:* C. Cloutier-Wojciechowska
- FRE 371     **Language Practice**, 3T, 1P  
A continuation of FRE 271. Further work in written and spoken French, with attention to both literary and informal usage. Laboratory work is included in the course. Recommended as preparation for specialist examinations in French.  
*Pre-requisite:* FRE 271  
*Instructor:* Staff
- FRE 372     **The Structure of Modern French** (offered Wednesday 5:00–7:00 p.m.)  
A description of modern French: a study of the phonological, morphological and syntactical systems of the language. Strongly recommended for students preparing for a teaching career in French language.  
*Pre-requisite:* FRE 120  
*Instructor:* M. Ducretet
- FRE 373     **General History of the French Language**, 1L, 1T (Not offered in 1973–74)

The principal aspects of the language of Northern Gaul from earliest to modern times. A general view of phonetic, morphological, syntactical and semantic evolution; regional, dialectal and social variations; attitudes of men of letters (writers, grammarians, scholars); political and social history.

*Pre-requisite:* FRE 120

*Instructor:* A. L. Stein

**FRE 374      Introduction to the Stylistics of French, 1L, 1T**

The study of stylistic aspects of contemporary spoken and written French.

*Pre-requisite:* FRE 120

*Instructor:* H. H. Weinberg

**FRE 390/      Independent Study**

391/392F/  
392S/392Y      Individual work with a member of staff on a literary or linguistic topic of common interest. Intended to accommodate students who already possess the background necessary to embark on a more intensive study of a specific area.

*Pre-requisite:* Any French course numbered 271 or higher

*Instructor:* Staff

**FRE 471      Advanced Written and Oral Expression, 1L, 1T**

The writing of French, including various types of composition and text analyses; oral debate. This course is specifically designed to further the student's proficiency in both written and spoken French and to perfect his style.

*Pre-requisite:* FRE 371

*Instructor:* M. Ducretet

## GEOGRAPHY

Faculty Advisers: Professor W. Harrison, Professor H. F. Andrews

Geography deals with the surface of the earth and with the plants, animals, and people that dwell upon it. Its basic objective is to describe and explain the reciprocal relations of man and his environment. Geography thus uses principles and methods common to the physical, social, and life sciences.

It is recognized that many students may come to Erindale with little knowledge of geography, while others will enter with a lively curiosity already sharpened and

focused by an excellent high school experience. A number of Geography courses are freely open to all students but for those who intend to specialize in Geography several integrated programmes are offered, including General Geography, Canadian Studies, Urban Studies, and Environmental Geography.

Intending specialists in any programme in Geography must obtain standing in at least nine GGR courses, including GGR 202EF, GGR 271E, GGR 301EF, GGR 381ES, and either GGR 471E or 491E. Those specializing in Environmental Geography must choose GGR 471E and also obtain standing in GGR 373E. Specializing students are advised to elect at least two GGR courses in each term or to follow one of the streams suggested below. Members of the staff in Geography will advise students concerning specialization and the courses which are most appropriate to their specific interests. The following courses in Geography may be included in a B.Sc programme: GGR 202EF, GGR 213E, 271E, 301EF, 311E, 318E, 373E, 375E, 377EF, 378ES, 381ES, 471E, 481EF, 491E.

### **Suggested Streams in Geography**

The Programme in Arts and Science offers a great number of courses for student selection. Faced with such a variety, many students have difficulty in selecting an appropriate sequence. To assist in making choices the following programmes are suggested for consideration. In addition it may be possible for individual programmes to be designed in consultation with the staff in Geography.

*General Geography:* Students should take the core courses listed above plus other courses selected in consultation with staff: GGR 213E, GGR 241E, GGR 253E, GGR 351E, and GGR 363E are amongst those suggested.

### *Environmental Geography:*

- Year I     GGR 171E, GGR 213E, BIO 110E, plus PHY 110 or MAT 110 EF (or 110ES) and 1 or 1½ options.
- Year II     GGR 202EF, GGR 271E, GGR 241E, BIO 230 plus 1½ options from CHM 120E, PHY 110, MAT 120EF (or 120ES), MAT 110EF (or 110ES), and ECO 260ES or EPS 240ES.
- Year III    GGR 301EF, GGR 318E, GGR 311E, GGR 375E, GGR 377EF, GGR 379ES, GGR 381ES.
- Year IV    GGR 373E, GGR 481EF, GGR 471E, GGR 378ES, BIO 330E or BIO 332E or BIO 431E, and ½ option.

### *Urban Studies:*

- Year I     GGR 171E, GGR 241E, plus 3 options which might include ECO 100, POL 100 or SOC 101.

- Year II GGR 202EF, GGR 231E, GGR 271E, plus 2½ options which might include other GGR courses, ECO 200 or SOC 205.
- Year III GGR 301EF, GGR 340E, GGR 341EF, GGR 345ES, GGR 346ES, GGR 381ES, plus 1½ options which might include other GGR courses or SOC 328ES.
- Year IV GGR 481EF, GGR 491E, plus options, which might include other GGR courses or POL 413EF.

*Canadian Studies:*

- Year I GGR 171E, GGR 241E, plus 3 options such as ANT 241E, ECO 100, HIS 205E, POL 100, or SOC 101.
- Years II and III GGR 202EF, GGR 231E, GGR 271E, GGR 301EF, GGR 315E, GGR 333ES, GGR 351E, GGR 381ES, plus 4½ options which might be other GGR courses, ECO 221E, ECO 261E, ENG 152, HIS 308E, or others.
- Year IV GGR 481EF, GGR 491E, plus 3½ options.

**N.B.** Nine GGR courses satisfy the requirements for a current Type A Certificate of Education provided a further 5 courses are taken in related fields.

GGR 171E **Man-Environment Interactions, 2L, 1T**

As time passes, the activities of man are altering the natural environment ever more significantly. Similarly, the degraded environment affects the quality of life for all mankind. The course considers the spatial organization of man's activities in pursuit of social and economic goals and examines the impact of man's activities on the atmosphere, hydrosphere, lithosphere, and biosphere. Social responses to altered environments are considered throughout.

*Instructors:* T. F. McIlwraith and W. Harrison

GGR 202EF **Statistics, 2L, 2T**

(Same as STA 202EF)

The purpose of this course is to acquaint beginning students in Geography with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about population on the basis of samples. (Tutorials for GGR 202EF will emphasize problems peculiar to geographical data.)

*Co-requisites:* GGR 271E

*Instructors:* D. Andrews and C. Houston

GGR 213E **Climatology, 2L, 2P**

- (I) Brief review of meteorological processes; world distribution of temperature, wind, and rainfall; the general circulation of the



atmosphere and its variations; climates of the earth. (First year students only may not combine with GGR 241E.)

*Instructor:* P. Duckworth

*Instructor:* (WES) P. Duckworth

**GGR 231E Introduction to Spatial Analysis, 2L, 2P**

Studies of the location and distribution of man's activities in space: models of human response to the natural and social environment in structuring patterns of agricultural, manufacturing, service, trade, transportation, and urban systems.

*Pre-requisites:* GGR 171E or equivalent or 241E/P.I.

*Instructor:* H. F. Andrews

**GGR 241E Urban Canada, 2L, 2P**

(I) An introduction to urban studies through an examination of the development and character of the urban fabric and urban life in Canada. First year students only may not combine with GGR 213E.

*Instructor:* G. Gad

**GGR 253E Cultural Geography, 2L, 1T**

A review of the man/environment relationship in which the importance of cultural differences is emphasized. Special attention will be given to the ways in which non-western and pre-industrialised peoples have used and modified their environments.

*Instructor:* A. R. Byrne

*Instructor:* (SES) A. R. Byrne

**GGR 255ES Perspectives on Current Population Issues, 2L, 2T**

Issues in current discussions of the "population problem" are examined in light of historical writings. Optimum population, population size and political strength, the tradition of pessimism in population theory, and Marxist positions.

*Instructor:* C. Houston

**GGR 271E Methods of Environmental Analysis, 2L, 2P**

Field and laboratory methods and instruments employed by geography and related sciences in the study of environmental problems, both human and natural. Encompasses cartography, aerial photography, field methods, monitoring instruments, interviewing, computer data reduction, and data display by charts, graphs, and tables. (May not be



combined with GGR 203E or GGR 205E in 1971–72 Calendar.)

*Pre-requisites:* GGR 171E or P.I.

*Co-requisites:* GGR 202EF

*Instructors:* J. C. Munday and Staff

GGR 301EF **Field Studies, 3P**

Direct out-of-doors investigation of physical and socio-economic phenomena; field observations and samples collected during a week-long field camp in September are analysed and reports submitted. Cost is about sixty dollars per student, which covers transportation and accommodation.

*Pre-requisites:* GGR 203E/GGR 205E (1971–72) or GGR 271E or P.I.

*Instructor:* Staff

GGR 311E **Conservation Strategies, 2L, 2P**

Use, depletion, and waste of resources, primarily energy. Alternative strategies for resource husbandry and pollution control.

*Pre-requisites:* GGR 271E or P.I.

*Co-requisites:* An introductory course in Chemistry, Physics, Earth Sciences, or Biology recommended

*Instructor:* J. C. Munday

*Instructor:* (SDS) J. C. Munday

GGR 318E **Man and Vegetation Change, 2L, 1T**

A review of the relationships between plants, animals and their changing environments. Special attention will be given to an evaluation of the significance of man's role as an agent of vegetation change.

*Pre-requisites:* GGR 171E or BIO 100E or BIO 110E or P.I.

*Instructor:* A. R. Byrne

GGR 333ES **Transportation Geography, 2L, 2T**

Principles of transport and land use; characteristics of transportation networks and movements; transportation and economic development, past and present; geographical aspects of contemporary transportation problems.

*Pre-requisites:* GGR 231E or P.I.

*Instructor:* T. F. McIlwraith

GGR 340E **Concepts, Methods and Values in Urban Studies, 1L, 3P (Same as SOC 340E)**

A course designed for students concentrating in urban studies irrespective of major disciplinary area. It provides a survey of a variety

of types of urban study from the social science perspective. The major emphasis is on linkages between the ways in which urban phenomena and processes are conceptualized, the methods employed to study them and the often implicit system of values in which such investigations are framed. Urban researchers, both academic and applied, will be invited to discuss their research in the context of these issues.

*Pre-requisites:* (1) GGR 241E/SOC 205/P.I.

(2) GGR 271E & GGR 202EF/SOC 201/P.I.

*Co-requisites:* At least one other urban course, e.g., GGR 341EF, 345ES, 333ES, 379EF, 346ES, SOC 328ES, etc. or P.I.

*Exclusion:* SOC 340E

*Instructors:* H. Andrews, G. Gad, H. Breslauer

GGR 341EF **Images of the City, 2L, 1T** (Not offered in 1973–74)

Examines changes and variations in the city image. Possible themes to be considered include: the child's and adolescent's view of the city; manipulation of the urban image through architecture and city planning; urban utopias and the city in the image of man; the spirit of the city in the work of nineteenth and twentieth century writers.

*Pre-requisites:* GGR 241E/SOC 205/P.I.

*Instructor:* H. F. Andrews

GGR 345ES **The City in History, 2L, 1T** (Not offered in 1973–74)

The aim of this course is to explore the development of the Western city against the background of social and technological change.

*Pre-requisites:* GGR 241E/SOC 205

*Instructor:* G. Gad

GGR 346ES **The Urban Planning Process, 1L, 2P**

The course is designed to lead to an understanding of the planning process and to an examination of the possible and actual impact of urban planning. Major topics will include the premises of planning and the history of urban planning; legislation providing for controls and the actual use of those controls; methods and techniques of urban planning and a review of achievements.

*Pre-requisites:* GGR 241E/SOC 205/P.I.

*Instructor:* G. Gad

GGR 351E **Historical Geography of Northeastern North America, 2L, 2T**

Social and economic development and change north of Chesapeake

Bay west through the Great Lakes area to the edge of the grasslands, from the time of first European contact; evaluation of the land by successive generations of observers and users is of central interest in this course.

*Pre-requisites:* Any two full GGR courses or P.I. A Canadian or American History course would be desirable.

*Instructor:* T. F. McIlwraith

*Instructor:* (WES) T. F. McIlwraith

GGR 361E **Canada, Contemporary Regional Studies**

A study of the spatial relations and distribution patterns of the physical features, resources, population, and economic development.

*Pre-requisite:* An introductory geography course

*Instructor:* (SES) D. F. Putnam

GGR 363E **Geography of the Soviet Union, 2L, 1T**

A survey of the geography of the Soviet Union through an examination of topics ranging from the territorial expansion of the Russian state to contemporary issues in planning and development. Comparison of Soviet conditions with more familiar North American situations.

*Pre-requisites:* One Geography course or P.I.

*Instructor:* C. Houston

*Instructor:* (WES) C. Houston

GGR 373E **Remote Sensing of Environment, 2L, 2P**

Principles, instruments, and methods of remote data collection and analysis. Cameras, infrared scanners, microwave radiometers, radar, and other similar instruments used on aircraft and satellites.

Applications to social and physical geography, geology, forestry, agriculture, oceanography, hydrology, and meteorology. (May not be combined with GGR 205E in 1971-72 Calendar.)

*Pre-requisites:* PHY 110 recommended, GGR 271E, or P.I.

*Instructor:* J. C. Munday

GGR 375E **Land-Use Hydrology, 2L, 2P**

Introduction to hydrology. Management of water and watersheds using the Credit River watershed as an example.

*Pre-requisites:* GGR 202EF/MAT 135E/P.I.

*Instructor:* P. Duckworth

GGR 377EF **Computer Analysis of Environmental Data, 2L, 2P**

Research design. Multiple regression, Fourier, and spectral analysis of

field data; preparation of trend maps. (May not be combined with GGR 211E in 1971–72 Calendar.)

*Pre-requisites:* GGR 202EF/P.I.

*Instructor:* W. Harrison

GGR 378ES **Futures Research and Geographic Planning, 2L, 1T** (Not offered in 1973–74)

Predicting and planning the future of large dynamic systems such as world resources, geographical regions, or biological populations. A cybernetic approach with discussion of stability, homeostasis, regulatory feedback and control.

*Pre-requisites:* P.I.

*Instructor:* J. C. Munday

GGR 379EF **Man-Environment Strategies, 1L, 4P**

An examination of individual and group decision-making in conflict situations concerning environmental resources. The course utilises several gaming models which attempt to simulate such situations as air-pollution control in urban areas, water and land resource use in recreation areas, social and political processes and urban growth dynamics.

*Pre-requisites:* GGR 271E; GGR 231E strongly recommended

*Instructor:* H. F. Andrews

GGR381ES **Research Design, 2P**

This course is designed to give students experience in the definition of and proper approach to a research study. Sampling schemes, analytical procedures, and thesis or report formats are also covered. Students prepare a paper on the research problem of their choice. In addition to the statement of purpose, the paper embodies a thorough review of pertinent literature and, where appropriate, data from interviews with experts in the field, personal observations and/or preliminary sample analyses.

*Pre-requisites:* GGR 271E or P.I.

*Instructor:* H. F. Andrews, W. Harrison

GGR 471E **Environmental Case Studies, 1L, 2T**

Each year the students and faculty participating in the course select a small area of southern Ontario for intensive study. Teams are formed to investigate specific aspects of environmental modification. Each student writes a comprehensive environmental report that reflects his team's contribution. (May not be combined with GGR 491E.)

*Pre-requisites:* Six GGR courses plus GGR 381ES. Open to fourth year students only

*Co-requisite:* GGR 481EF

*Instructors:* W. Harrison and Staff

GGR 481EF **Advanced Reading Seminar, 2L**

Topics to be determined by interest.

*Pre-requisites:* P.I. Open to fourth year students only

*Instructor:* Staff

GGR 491E **B.A./B.Sc. Thesis**

A research project, each student working on a topic of his choice under the individual guidance of a member of the staff. Copies of the thesis are to be submitted by March 1, and the student will present it before an examining committee. (May not be combined with GGR 471E.)

*Pre-requisites:* Six GGR courses plus GGR 381ES. Open to fourth year students only

*Co-requisite:* GGR 481EF

*Instructors:* H. F. Andrews and Staff

## GEOLOGY AND GEOPHYSICS (See Earth and Planetary Sciences)

### GERMAN

Faculty Adviser: Professor W. Meyer-Erlach

Courses in German LANGUAGE and LITERATURE acquaint the student with an essential part of Western Civilization.

LANGUAGE study—now open to beginners—includes instruction in conversational and reading skills, phonetics, translation, composition, and stylistics. Advanced learning aids and methods intensify interaction between student and instructor. The language student will find his efforts rewarded when dealing with relevant socio-economic, scientific, political, and cultural issues in his chosen field. A carefully designed sequential programme will enable the ambitious student to attain a high level of competence in the language. A working knowledge of German is an asset in virtually any other field of studies, especially later at the graduate level.

The scope, depth and variety of German LITERATURE has always captivated the attention of pundit and neophyte alike. Significant writers and developments of the last two centuries are emphasized. Authors such as Lessing, Goethe, Schiller, Kleist, Novalis, Grillparzer, Heine, Keller, Nietzsche, Hesse, Thomas Mann, Brecht, Böll, and Grass are studied.

The serious student is well advised to adopt at least the core sequence GER 130, GER 210, GER 220, plus courses from the 300 and 400 group. Thus, he *may* specialize in German at any point of his undergraduate career.



Qualified students are encouraged to investigate the benefits of *Third Year Studies Elsewhere*.

An attractive alternative for those who do not wish to spend a whole year overseas is the FIFTH SUMMER PROGRAMME OF G.A.C.E. (*the German Academic Club of Erindale*). Working/studying (with scholarships available for meritorious students) and travelling for three months will greatly enhance the students' knowledge of another culture and improve their ability to communicate.

More comprehensive information and advice on counselling is provided in the brochure compiled jointly by students and staff of German and available upon request.

**GER 100      Elementary German, 3T, 2P**

A comprehensive course for those with little or no knowledge of the language who wish to attain a performance level comparable to Grade 13 German in Ontario secondary schools. To facilitate this achievement GER 109E should be taken concurrently.

*Instructor:* TBA

*Instructor:* (SES, WES) TBA

**GER 108E      Basic German A, 2T, 2P**

Instruction for students who wish to acquire a basic working knowledge of German or of whom this is required by their faculty or department.

*Instructor:* TBA

**GER 109E      Computer Assisted Instruction in Fundamental German**

A course designed to facilitate the acquisition of vocabulary most frequently used and of fundamental structures. Strongly recommended in conjunction with GER 100 but also available to anyone wishing to reinforce his or her knowledge while taking first and second year language courses.

*Instructor:* TBA

*Instructor:* (SES, WES) TBA

**GER 110      Language Practice I, 2T, 2P**

Intensive guidance in learning to write and speak German. Materials used in the tutorials and practice sessions of this course will introduce the student to the cultural and socio-political background of the German speaking countries.

*Pre-requisite:* 3 years of German taken at a secondary school in the Province of Ontario/P.I.

*Instructor:* TBA

**GER 120      Modern Literature, 2L, 1T**

Topical works in modern German Literature, with emphasis on the

20th Century, will be investigated under the theme: *The author as a seismograph of society*.

*Pre-requisite:* 3 years of German at a secondary school in the Province of Ontario/P.I.

*Instructor:* TBA

GER 130

**Introduction to University German, 1L, 1T, 1P**

Beginning where Grade XII/XIII left off, this course focuses on *language* but does not neglect *literature* and as *the core course in first year* it permits continuation of either. The student's motivation and performance will be rewarded by rapid progress and, if proven early, by the possible combination with more advanced courses, such as GER 210 and/or GER 220. A special section is available to the dedicated evening student.

*Pre-requisite:* 3 years of German at a secondary school in the Province of Ontario/P.I.

*Instructor:* TBA

*Instructor:* (SES) TBA, (WES) TBA

GER 201

**German Literature in English Translation, 2L**

Selected works of modern German Literature in English translation.

*Instructor:* TBA

GER 205

**Basic German B, 2T, 1P**

The continuation of GER 105/108E with consideration for the needs of individual students and their special interests. Also suitable for those who have taken German before and require a refresher course in this language.

*Pre-requisite:* GER 105/P.I.

*Instructor:* TBA

GER 210

**Language Practice II, 2T, 1P**

The *intermediate* stage of a sequence that begins with GER 110.

An intensive course for those who are interested in gaining an active command of the language with the aid of relevant sources of information.

*Pre-requisite:* GER 105/P.I.

*Instructor:* TBA

GER 220

**Enlightenment and "Storm and Stress", 2L, 1T**

The encounter of a static and a dynamic period in 18th Century German Literature. A study of the works of the German *Aufklärung*

and *Sturm und Drang* culminating in Goethe's *Faust* (Part One).

*Pre-requisite:* GER 120/P.I.

*Co-requisite:* GER 130, if taken in *First Year* with P.I.

*Instructor:* TBA

GER 231E **Literature and Language Practice**

This course includes readings in German prose works; it also emphasizes an active command of the language. Evenings only.

*Pre-requisite:* GER 110/120/130/P.I.

*Instructor:* (WES) TBA

GER 310 **Language Practice III, 2T, 1P**

The *advanced* course in a sequence especially designed for students aiming at a thorough knowledge of stylistics and for fluency of expression in a realistic setting.

*Pre-requisite:* GER 210/P.I.

*Instructor:* TBA

GER 320 **"Geist Der Goethezeit", 2L, 1T**

This course is a continuation of GER 220. It entails the study of works of the mature Goethe, Schiller and some of their important contemporaries. The focal point is *Faust II*.

*Pre-requisite:* GER 220/P.I.

*Co-requisite:* GER 220 if taken in *Second Year* with P.I.

*Instructor:* TBA

GER 321E **Nineteenth Century Prose and Poetry, 2L, 1T**

Prose and poetry in German Literature from late Romanticism to Naturalism with emphasis on Realism. This course includes major works of such authors as Heine, Stifter, Storm, Keller, Fontane, Meyer and Raabe.

*Pre-requisite:* GER 220/P.I.

*Co-requisite:* GER 220 if taken in *Second Year* with P.I.

*Instructor:* TBA

GER 325 **Romanticism in Life and Literature, 2L, 1T** (Not offered in 1973–74)

At no other time was the life of the *German intelligentsia* so intimately intertwined with literary pursuits than in the so-called *Romantic* period. This fruitful and ambiguous relationship will be explored and some of its important manifestations investigated.

*Pre-requisite:* GER 220

*Co-requisite:* GER 220 if taken in *second year* with P.I.

*Instructor:* TBA

- GER 410E **Language Practice IV, 2T, 1P**  
 The terminal course in the undergraduate language sequence concerned with refinements of usage and the theory and practice of *Publizistik*.  
*Pre-requisite:* GER 310  
*Instructor:* TBA  
*Instructor:* (SDS) TBA
- GER 420 **Prose and Poetry 1885–1945, 2L, 1T** (Not offered in 1973–74)  
 A consideration of significant writers in modern German Literature such as Nietzsche, George, Hofmannsthal, Thomas Mann, Rilke, Hesse, Kafka, Stadler, Heym and Trakl.  
*Pre-requisite:* GER 220/P.I.  
*Co-requisite:* GER 220 if taken in *Second Year* with P.I.  
*Instructor:* TBA
- GER 421 **Modern Drama, 2L, 1T**  
 An examination of the development of this genre in German literature from the early 19th Century until 1956; it includes such authors as Nestroy, Büchner, Gerhart Hauptmann, Wedekind, Kaiser, Sternheim, Brecht, Max Frisch and Dürrenmatt.  
*Pre-requisite:* GER 220/P.I.  
*Co-requisite:* GER 220 if taken in *Second Year* with P.I.  
*Instructor:* TBA
- GER 422E **Contemporary Literature, 2L, 1T** (Not offered in 1973–74)  
 German Literature in the second half of the 20th Century and its re-integration into *Weltliteratur*. Included are such authors as Seghers, Nossack, Böll, Celan, Aichinger, Brecht, Grass, Martin Walser, Hans Magnus Enzensberger and Kunert.  
*Pre-requisite:* GER 220/P.I.  
*Co-requisite:* GER 220 if taken in *Second Year* with P.I.  
*Instructor:* TBA
- GER 429E **Directed Reading and Study**  
 This course is reserved for those who have completed, or are in the process of completing, the requirements for specialist standing. It will prepare the student for specialization at the graduate level by deepening his appreciation of the essential aspects of German literature, in the context of cultural, socio-political, and historical developments.  
 Fourth year students only.  
*Pre-requisite:* P.I.  
*Instructor:* TBA



## HISTORY

Faculty Adviser: Professor A. C. Gluek, Jr.

A recent University of Toronto publication states that, *Every subject taught in a university has a social context. History, in particular, is relevant to the study of disciplines no matter how specialized. The study of history leads the student into the records of mankind. This past illuminates, although it may not directly guide, the conditions of the present. To have no interest in history is to have no interest in the present, no reasonable view of the future and no analysis of oneself.*

The history programme at Erindale is designed to give students as comprehensive a view as possible of the history of the modern world. In addition to general introductions to Western civilization and the Third World there are more specialized offerings in American, Canadian, Latin American, East European, British, and Western European history. There are also a limited number of offerings in classical and early modern European history. Students, therefore, have an opportunity for concentrated work in specialized areas of interest in the context of a balanced programme, thereby giving them an opportunity to discover that history is not only a dialogue between past and present but, as has already been indicated, a tool for self-understanding and further intellectual growth.

In addition, a history concentration can provide students with the requisite mental discipline and analytic skills for work in a variety of chosen fields, from teaching and the law to a career in the civil service or journalism.

### **Specialist Programme:**

Students who seek to specialize in History are required to enrol in the History Office (Room 274). A Specialist Programme in History is a four-year programme which includes at least nine full-year courses or equivalent from the offerings of the Department. Courses from other departments (normally not more than three) may be substituted for History courses with the approval of the Specialist Programme Committee. Within this general prescription: (a) the nine courses must be chosen from a minimum of three areas; (b) in each of two areas a minimum of two 300 or 400 series courses must be chosen; (c) of the nine courses, at least two must deal exclusively with periods preceding the year 1815.

The Department's courses fall into the following areas: Canadian, U.S.A., British, Latin American, East Asian, European, East European and Russian, and History of Science and Technology.

Students should note that, in meeting these requirements, (1) the Erindale historians have added new courses and will alternate courses in succeeding years, (2) certain courses have been cross-listed (Spanish history and Greek and Roman history), and (3) up to two courses per year may be taken at the St. George Campus. It should also be noted that some related courses in other disciplines may, upon petition to the Erindale historians, be accepted as substitutes for the above.



- HIS 100E     **Europe and the World, 1789–1969, 2L, 1T**  
 Modern Europe from the French Revolution to the 1960's with special emphasis on Europe's relations with other parts of the world. Political, economic, social and cultural aspects will be covered.  
*Instructor:* M. Dafoe
- HIS 101     **The Emergence of the Third World, 2L, 1T**  
 An inquiry into the composition and nature of the economically under-developed regions of the world, especially Latin America, Africa, and East Asia; and an investigation of the historical and contemporary conditions that have given rise to a collectively shared "third world consciousness" among the peoples and nations of these regions.  
*Instructors:* R. E. Johnson, D. L. Raby
- HIS 200E     **The United States, 1607–1973, 2L, 1T**  
 (1)     An introduction to American History, from the earliest colonial settlements to the present. Political, diplomatic, economic, social, cultural, and intellectual developments will be discussed.  
*Instructor:* W. B. White
- HIS 203E     **Latin America—Survey** (offered Wednesday 7:00–9:00 p.m.)  
 The history of Latin America: political, social, economic and cultural. Special emphasis may be given to particular countries.  
*Instructor:* D. L. Raby
- HIS 204E     **Italy—Survey, 2L, 1T**  
 (1)     A general survey of the history of Italy: political, social, economic and cultural.  
*Instructor:* C. LaVigna
- HIS 205E     **Canada 1663–1967, 2L, 1T**  
 (1)     A survey of the political, social and economic history of Canada, topically treated.  
*Instructor:* A. C. Gluck, Jr.  
*Instructor:* (WES) D. P. Morton
- HIS 206E     **Russia—Survey, 2L, 1T**  
 A general survey of the history of Russia: political, social, economic and cultural.  
*Instructor:* R. E. Johnson

- HIS 301E **Canadian Parties & Politics Since 1867, 2T**  
 An examination of federal and provincial politics with special emphasis on the electoral process and the developing sociology of the Canadian party system.  
*Instructor:* D. P. Morton
- HIS 302E **Ethnicity in American History, 2L** (Not offered in 1973–74)  
 The seminar will consider the extent to which the United States has been a “melting pot”, including migrations to and settlement patterns in America, concepts of nationality and race, and problems of assimilation and acculturation. Black history and Indian-white relations will also be discussed, although the focus will be on non-Anglo-Saxon immigrants.  
*Pre-requisite:* P.I. (Preference will be given to third and fourth year students.)  
*Instructor:* W. B. White
- HIS 303E **International Relations 1870–1960, 2T**  
 The international relations of the European powers at their zenith and in decline. The economic and social framework will be examined as well as the political conflict.  
*Pre-requisite:* P.I. (Preference will be given to third and fourth year students.)  
*Instructor:* M. Dafoe  
*Instructor:* (WES) M. Dafoe
- HIS 304E **Social Revolutions in Latin America: Mexico, Bolivia, and Cuba, 2T**  
 (5:00–7:00 p.m., Thursday)  
 A comparative study of three major revolutions, the Mexican of 1910, the Bolivian of 1952 and the Cuban of 1959. The course will entail some reading of literature on revolutionary theory, nationalism and problems of underdevelopment.  
*Pre-requisite:* P.I. (Preference will be given to third and fourth year students.)  
*Instructor:* D. L. Raby
- HIS 305E **Social History of Europe in Recent Times 1815–1945, 2T**  
 The seminar concentrates upon an examination of controversial interpretations of this period by some of Europe’s leading authors with a view to understanding better what underlies the triumph of the 20th century totalitarian movements—Fascism, Nazism, and Stalinist Communism.  
*Instructor:* C. LaVigna

- HIS 306E     **19th Century Britain, 2T**  
 The major themes of British history from the late 18th Century: the emergence of industrial society, the fate of aristocracy, religion, cultural and intellectual change, foreign relations, constitutional development and political history.  
*Instructor: M. Dafoc*  
*Instructor: (WES) M. Dafoc*
- HIS 307E     **Canadian History from Contemporary Issues, 2L** (Not offered in 1973-74)  
 The examination of Canadian contemporary problems in their historical context.  
*Pre-requisite: P.I.* (Preference will be given to third and fourth year students.)  
*Instructor: D. P. Morton*
- HIS 308E     **Canadian History: The Canadian-American Relationship, 2L**  
 Lectures, recitations, and readings during the first term. During the second, students will prepare, present, and comment upon papers dealing with particular subjects in the Canadian-American relationship from 1783 to the present.  
*Pre-requisite: P.I.* (Preference will be given to third and fourth year students.)  
*Instructor: A. C. Gluek, Jr.*
- HIS 309E     **The Foreign Policy of the United States** (Not offered in 1973-74)  
*Pre-requisite: P.I.* (Preference will be given to third and fourth year students.)
- HIS 310E     **The Russian Revolution, 2T**  
 A search for the roots of Revolution, examining the radical movements of the 19th century; changing economic and social conditions, and the government's efforts to cope with them; worker and peasant unrest; parties and programmes before and during 1917.  
*Pre-requisite: P.I.* (Preference will be given to third and fourth year students.)  
*Instructor: R. E. Johnson*
- HIS 312E     **The Renaissance, 2L, 1T**  
 A cultural history of the 15th and 16th centuries set against the socio-economic background. The course will concentrate upon the

development of the Renaissance in Italy and will deal with its manifestations in Northern Europe.

*Instructor: C. LaVigna*

- HIS 313E **Italy from Unification to Fascism, 2L** (Not offered in 1973–74)  
 A study of the problems surrounding the unification of Italy and the unified state with emphasis upon social questions. The period covered will be from approximately 1800 to 1945.  
*Instructor: C. LaVigna*
- HIS 313 **Canadian Labour and the Left** (offered Thursday 5:00–7:00 p.m.)  
 A study of the growth of the Canadian labour movement since Confederation and of the related development of Canadian radicalism. Social, economic and regional themes will be incorporated.  
*Pre-requisites: HIS 205E or POL 100*  
*Instructor: D. P. Morton*  
*Note: This is NOT the same as HIS 313E.*
- HIS 315E **Mexico: Independence to Revolution, 1810–1960, 2T**  
 A seminar considering the growth of the Mexican nation from the struggle for independence to the “institutional revolution” of today.  
*Pre-requisite: P.I.*  
*Instructor: D. L. Raby*
- HIS 338 **From Empire to Welfare State, 2L, 1T** (Not offered in 1973–74)  
 The major political, economic, and social changes in Britain in the 20th century. Special attention will be given to imperial and foreign policy and the creation of the welfare state.  
*Instructor: M. Dafoe*
- HIS 364 **Canada and War, 1867–1967, 2T** (Not offered in 1973–74)  
 Canada’s experience with war and military institutions since Confederation, with special emphasis on the social and political implications.  
*Pre-requisites: HIS 205E or POL 100*  
*Instructor: D. P. Morton*
- HIS 370E **American Social History, 2L, 1T**  
 The structure of American society and the interplay of the institutional and population groups in the social order. Major themes will include the changing functions and forms of religion, the family, education,

ethnic, race and class relations, and the impact of urbanization and industrialization.

*Instructor:* W. B. White

HIS 393E **Twentieth Century Spanish History, 2L** (Not offered in 1973–74)

Same as SPA 393E

*Instructor:* J. Webster

HIS 394E **Survey of Spanish History, 1469–1815, 2T** (Not offered in 1973–74)

Same as SPA 394E

*Instructor:* J. Webster

HIS 395EF **The Spanish Civil War, 2L**

The origins and after-effects of the Spanish Civil War (1936–1939).

Same as SPA 395EF

*Pre-requisite:* P.I.

*Instructor:* J. Webster

HIS 401E **Independent Reading**

An independent study of an area of particular interest to a student or group of students carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year.

*Pre-requisite:* P.I.

*Instructor:* Staff

HIS 402E **Historiography Seminar, 2L** (Not offered in 1973–74)

A study of the historian and his craft: attention will be given to important historians from classical times to the present as well as to historical source material and research methods.

*Pre-requisite:* P.I.

*Instructor:* Staff

HIS 403E **Independent Reading**

An independent study of area of particular interest to a student or group of students, carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year.

*Pre-requisite:* P.I.

*Instructor:* Staff

*Note:* This course description is identical with HIS 401E, *but* its inclusion will allow students to take two (2) Independent Reading courses.



- HIS 485     **The Problem of Government in Classical Greece, 2T**  
 A study of forms and ideas of socio-political organization in ancient Greece, concentrating on Athens, from Solon, the founder of her democracy, to Perikles, its greatest exponent.  
*Instructor: C. I. Reid*
- HIS 486     **The Roman Revolution, 2T (Not offered in 1973-74)**  
 A study of politics and society in ancient Rome during the period of the breakdown of republican government and the transition to the autocratic system of the Principate.  
*Instructor: R. L. Beck*

### INTERDISCIPLINARY STUDIES

- INI 202     **Canadian Culture and Society, 1L, 1T, 1P**  
 An introduction to aspects of Canadian culture and society for students for whom English is a second language. Guest lecturers from disciplines such as Geography, History, Political Science, Economics, Anthropology, Sociology and Architecture explore in more depth those questions raised in the preliminary 6-week orientation period. Erindale students will attend weekly lectures on the St. George Campus on Tuesdays at 6:00 p.m. Weekly seminar and tutorial meetings will be arranged. The facilities of the Erindale College Writing Laboratory are available for help in the preparation of written and oral reports. Further information can be obtained from Professor Van Fossen or from the Registrar's Office.  
*Instructors: Mrs. H. Davidson and others*

### ITALIAN

Faculty Adviser: G. Mazzotta

Italian is a worthy and even indispensable aid to studies of other literatures, especially French, Spanish and English. "Exciting" may seem a trite adjective, but one can certainly be swept along by the study of the Renaissance in Italy. A first-hand study of Machiavelli's own writings will also serve to rescue him from standard misinterpretations, and reading Michelangelo's literary works will complete one's views of his overall genius. And so one could continue from the beginnings of Italian literature to the present creative surge.

One can also mention the inherent beauty of spoken Italian with its vastly varying dialects from the top to the bottom of the "boot".

A fuller comprehension of the literary, linguistic, cultural and historical facets of Italian civilization is the goal of our programme of studies.

Graduates in Italian are in demand and will continue to be. Knowledge of another language and culture is regarded favourably by other disciplines and is frequently required for graduate-level studies. There are career opportunities in teaching, foreign affairs, trade and law.

A division has been made in ITA 100 and ITA 201 between “dialect speakers” and “non-dialect speakers”. This has been done in order to meet the particular needs of each group.

The following courses are considered “core courses” and therefore, necessary for specialists: ITA 201, ITA 202, ITA 300 and ITA 340Y. The balance of courses necessary for specialization may be chosen from available courses at Erindale and at St. George. In order to qualify for the M.A. programme in Italian at the University of Toronto, matriculants will need seven courses in Italian, non-matriculants will need eight.

Type A certification in Italian requires a student to have nine courses in Italian or for dual-certification a minimum of six courses in four years of university study.

**ITA 100(A) Beginning Italian for Dialect Speakers, 3L, 2P**

Grammar, translation, oral work, with a view to providing basic conversational and writing skills. For dialect speakers.

*Instructor:* P. Marchese

**ITA 100(B) Beginning Italian for Non-dialect Speakers, 3L, 2P**

Grammar, translation, oral work, with a view to providing basic conversational and writing skills. For non-dialect speakers.

*Instructor:* P. Marchese

**ITA 201E(A) Continuing Italian—for Dialect or Native Speakers, 2L, ½T**

For dialect or native speakers. A comprehensive review of Italian grammar based on readings from a literary text. Creative writing and conversation are an integral part of this course. Required for specialists.

*Pre-requisites:* ITA 100A/Gr. XIII ITA and P.I.

*Instructor:* P. Marchese

**ITA 201E(B) Continuing Italian, 2L, ½T**

Designed for those whose background in Italian is solely academic. Required for specialists.

*Pre-requisites:* ITA 100B/Gr. XIII and P.I.

*Instructor:* L. T. McCormick

*Instructor:* (WES) L. T. McCormick

**ITA 202E Modern Italian Short Stories and Plays, 2L**

The short story (“novella”), so vitally important throughout Italian

literature, should both interest and delight. Selections include "novelle" by Verga, Buzzati, Moravia, and others. Also to be read are plays by authors such as: Giacosa, Pirandello and Betti. Required for specialists.

*Pre-requisites:* ITA 100/Gr. XIII ITA and P.I.

*Instructor:* L. T. McCormick

**ITA 300E Italian Literature, 2L, 1T**

A survey of Italian Literature from its beginnings to approximately 1600. It serves as an introduction to the poetry and prose, and the types and styles of Italian literature. Dante, Petrarch, Boccaccio, Machiavelli are some of the authors to be discussed. Required for specialists.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* L. T. McCormick

**ITA 310E Dante's Inferno and Purgatorio, 2L, 1T**

Concentrates on problems of literary structure such as allegory, figure, novel of the self, mythology, etc., within the context of the theological debates of the Middle Ages.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* G. Mazzotta

**ITA 311EF The Decameron of Boccaccio, 2L, 1T (Not offered in 1973-74)**

A comprehensive study of Boccaccio's major work; the morality and the humour which make it stand out from its own time.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* G. Mazzotta

**ITA 313EF Petrarca, 2L, 1T (Not offered in 1973-74)**

Why has Petrarch's poetic influence been felt by so many writers of so many countries (i.e. Ronsard in France, Garcilaso in Spain, Donne in England, Hooft in Holland, Bärghlio in Sweden, etc.)? We will seek to answer this question by a study of Petrarca in his prose as well as in his *Rime*.

*Pre-requisite:* ITA 201E

*Instructor:* G. Mazzotta

**ITA 321E The Italian Epic in the Sixteenth Century, 2L, 1T**

Ariosto's *Orlando furioso* and Tasso's *Gerusalemme liberata* influenced such famous writers as Cervantes, Spenser, Milton and Montaigne. The reasons will appear after a detailed study of the two works, each having similarities and differences in spirit and

substance. Ariosto writes of women, knights, arms, loves and wild adventures and Tasso declares his intent to treat of a spiritual cause but has difficulty restraining his sensual self.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* L. T. McCormick

ITA 323ES **Machiavelli and Castiglione, 2L, 1T**

This course will concentrate on the *Principe* of Machiavelli and the *Cortegiano* of Castiglione and place them in their historical and literary context while giving them a close analytical reading.

*Pre-requisite:* ITA 201E

*Instructor:* G. Mazzotta

ITA 324EF **Leopardi, 2L, 1T**

A close reading of Leopardi's *Idilli* within the context of Classical and Romantic traditions.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* G. Mazzotta

ITA 340EY **Creative Italian I, 1L, ½T**

Advanced language course which will touch on stylistics. Translation from English to Italian is discouraged. Emphasis on vocabulary building is handled within the context of Italian only. Fulfills specialization requirement.

*Pre-requisite:* ITA 201E (A or B)

*Instructor:* P. Marchese

ITA 360E **Twentieth Century Novel and Drama, 2L, 1T**

Svevo, the novelist from Trieste who was discovered by James Joyce, will be the first of a series of novelists to be studied. Others will include Pirandello, Silone, Vittorini and Moravia. The germ of the present-day French theatre of the absurd is to be found in the earlier Teatro Grottesco with its dramatists such as Rosso di San Secondo and Chiarelli. Their influence on Pirandello is indisputable. Italian drama and comedy continue to surprise, depress or elate, with works by Betti, Fabbri and DeFilippo. (Not available to students who have taken Italian 301EY or Italian 302s—1971–72 Calendar.)

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* TBA

ITA 371EF **Introduction to Modern Poetry, 2L, 1T**

A study of the post-Romantic era, including Pascoli and D'Annunzio

and the first half of the 20th century involving principally the Futurist revolution and Hermeticism. (Not available to students who have taken ITA 303EY—1971–72 Calendar.)

*Pre-requisite:* ITA 201E A or B

*Instructor:* P. Marchese

ITA 390ES **Verga e la tristezza faticosa del vivere, 2L, 1T**

The novels and short stories of Giovanni Verga, Sicilian and Italian, whose characters endure the hopelessness of life.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* L. T. McCormick

ITA 399ES **Pirandello: Life vs Form, 2L, 1T**

Although Pirandello died in 1936, the dramatization of his conception of life which aroused controversy when first presented is still disturbing. Much of today's theatre can be traced to Pirandello's influence.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* P. Marchese

### LINGUISTICS

LIN 200 **Introduction to General Linguistics, 2L, 1T**

This course aims at describing certain universals in the phonological, morphological, syntactic and semantic structures of language. The principal purpose is not to indoctrinate the student in any particular school of linguistic thought but rather to acquaint him with the various possibilities of analyzing the components of language.

Since the course's primary goal is to serve as a valuable tool for students of English and foreign literatures, languages, psychology, anthropology, sociology, communications, etc., a multi-disciplinary approach will be used throughout the presentation of material.

*Instructor:* A. L. Stein

LIN 201S **Language Learning, 3L**

Theory of language behaviour, with emphasis on studies of language acquisition in childhood.

*Instructor:* TBA

LIN 333 **Structure of English, 2L**

A systematic approach to the structure of present-day English, with attention to semantic, syntactic and phonological patterns.

*Instructor:* TBA



### LITERATURE IN TRANSLATION

- LTR 192     **The Rogue in Literature**, 2L, 1T (Not offered in 1973–74)  
 Studies the picaresque novel, or romance of roguery, and its evolution from classical antiquity to the present day. The “picaro” will be viewed in the light of his age, as a reflection of his environment and the vision of the world of his times. Special emphasis will be given to sixteenth and seventeenth century Spain, the home country of this shady hero. Translations will be read of works by Petronius, Apuleius, Fernando de Rojas, Anonymous (*Lazarillo de Tormes*), Quevedo, Cervantes, Le Sage, Grimmelshausen and Mann.  
*Instructor: O. Heygi*

- LTR 193     **The Realistic Novel**, 2L, 1T  
 An introduction to the great florescence of prose writing in nineteenth-century Europe. The two impulses of realism and romanticism induced a tension in the greatest creative minds of the age. The result was a series of passionate, romantic, or tragic characters—Madame Bovary, Anna Karenina, Julien Sorel—depicted against detailed but panoramic social backgrounds—the Napoleonic Wars, the rise of the bourgeoisie, the first rumblings of the revolution in Russia. Works will be chosen from the writings of Balzac, Flaubert, Stendhal, Tolstoy, Turgenev, Fontane, Hauptmann, Galdos and Verga.  
*Instructor: P. R. Findlay*

*See also:*

- GLL 200     **Greek Drama in Translation**  
 GLL 202S     **The Ancient Novel**  
 GLL 206F     **Socrates**  
 GER 201     **German Literature in English Translation**  
 SLA 110E     **Introduction to Slavic Culture and Literature**  
 SLA 210     **Nineteenth Century Russian Literature**  
 SLA 211     **Masterworks of Russian Literature in Translation**  
 SLA 310     **Twentieth Century Russian Literature**  
 SLA 312     **Tolstoy and Dostoevsky**  
 SLA 316     **Literature and Politics in the Soviet Union**  
 SPA 191     **Spanish Civilization and Culture**  
 SPA 192     **Latin American Civilization and Culture**

## MATHEMATICS

Faculty Adviser: Professor S. M. Trott

There are many different motivations for the study of Mathematics. To the humanist, Mathematics is a part of the mainstream of human culture, and he is likely to regard his subject as an art. To the scientist or social scientist it affords analytical and descriptive devices which greatly illuminate theory. To the engineer and economist it is an important working tool. To the mathematician, it is an end in itself. Mathematics endeavours to provide courses to suit all of these viewpoints.

The professional mathematician is most likely to find employment in universities, in the civil service or in government laboratories, and in financially or technologically oriented business firms. Research positions require post-graduate study. Such fields as teaching, computing, applied statistics, and actuarial science offer opportunities for graduates. A training in Mathematics has traditionally been a strong preparation for careers in law and business; today it is also an excellent foundation for further work in a wide variety of fields in the physical and social sciences.

The sequential nature of Mathematics means that pre-requisites are essential in most courses and that, as a rule, it is disastrous to fall behind in a course. In other words, good preparation and steady work are essential to successful completion of a mathematics course, and students without the one and/or unwilling to engage in the other are advised to avoid the subject. Where pre-requisites are stated, they may be waived for students who can demonstrate adequate knowledge.

First year students with adequate preparation who want a substantial mathematics course either for its own sake or in conjunction with another field of study are advised to take MAT 139E. All serious students should also take MAT 140E. The half courses MAT 110EF and MAT 120ES afford an entry into Mathematics for the student who omitted Grade 13 Mathematics.

Erindale College offers a full range of courses required for specialization in Mathematics and in Computer Science for the first three years of study. Arrangements can be made for students with B-average or better to take a fourth year of study at the St. George Campus.

### *Programme in Mathematics:*

First Year:	required	MAT 139E, MAT 140E
	recommended	MAT 204EF, MAT 209ES
Second Year:	required	MAT 239E, MAT 240E, MAT 204EF, MAT 209ES, APM 251E
	recommended	STA 232
Third Year:	required	MAT 339E, MAT 340EF, MAT 345ES, and APM 351E, or STA 357E, or both of STA 332F and STA 342S

*Programme in Computer Science:*

- First Year:   required       CSC 148F, CSC 158S, MAT 139, MAT 140E  
                  recommended MAT 204F, MAT 209S
- Second Year: required       CSC 248S, CSC 258F, APM 251E, MAT 239, STA 232  
                  recommended CSC 228F\*, MAT 244F, APM 241S
- Third Year:   required       CSC 361S, CSC 378F, CSC 368S\*, MAT 240E  
                  recommended CSC 358S\*, ELE 459F\*

(\*These courses are available only on the St. George Campus.)

The course numbers indicate the year in which a course is normally taken, but this indication is not meant to be restrictive. Any mathematics course may be taken whenever a student has the pre-requisites or can obtain waiver of pre-requisites.

APM 241S   **Mathematical Models, 2L, 1T**

Construction and analysis of mathematical models in the life, social, and physical sciences.

*Pre-requisite:* MAT 244F

*Instructor:* P. H. H. Fantham

APM 251E   **Applied Mathematics I, 2L, 1T**

Introduction to dynamical systems: Newtonian physics, Lagrangian dynamics, linear networks, vibrating strings, linear systems in finite dimensional vector spaces: similarity, orthogonality, eigenvectors, decomposition of spaces. Introduction to infinite dimensional spaces: orthogonality, eigenvectors, Fourier series. Some numerical methods. Some experience in an experimental science is desirable.

*Pre-requisite:* MAT 135 (C or better)

*Co-requisite:* MAT 235 or P.I.

*Instructor:* V. Jurdjevic

APM 351E   **Applied Mathematics II, 2L, 1T**

Partial differential equations of applied mathematics, mathematical models of physical phenomena, basic methodology.

*Pre-requisite:* APM 251E (C or better)

*Instructor:* W. D. Lakin

CSC 108F   **Computer Programming, 2L, 1T**

Introduction to algorithms, computer organization, and assembly language. Emphasis will be placed on learning to programme in a high-level language, structured programming, and simple applications. (This course is especially for students who want to learn programming for use in their own areas of interest.)

*Exclusions:* CSC 108Y, 148F

*Instructor:* J. K. Metzger

*Instructor:* (WES) TBA

CSC 108Y     **Computer Programming**

*Instructor:* (SDS) TBA

CSC 118S     **Programming Applications, 2L, 1T**

A continuation of CSC 108F. Practical approaches to solving problems using a digital computer: numerical computations, statistical calculations, simulations, data processing and non-numerical calculations.

*Exclusion:* CSC 158S

*Pre-requisite:* CSC 108F/Y/148F

*Instructor:* J. K. Metzger

*Instructor:* (WES) TBA

CSC 148F     **Introduction to Computing, 2L, 1T**

Introduction to algorithms and problem solving with computers. Programming with a high-level language such as PL/I. Structured programming and problem solving. Illustrative applications. Elementary computer organization, assembly language, and compiling techniques. (This course is more intensive than 108F and is intended for students who plan to pursue a specialist programme in Computer Science, or wish to have a strong minor in Computer Science.)

*Exclusions:* CSC 108F/Y

*Co-requisite:* MAT 134/135/139

*Instructor:* C. R. Crawford

CSC 158S     **Computer Applications, 2L, 1T**

A continuation of CSC 148F. The applications of computers to various problems. Elementary numerical methods. Representation and manipulation of graphs. Some techniques of data processing. Construction and validation of computer simulation models. Other non-numerical applications.

*Exclusion:* CSC 118S

*Pre-requisite:* CSC 148F

*Instructor:* C. R. Crawford

CSC 248S     **Programming Languages, 2L, 1T**

The syntax, semantics, and history of various programming languages, including algebraic, symbol manipulation and list processing languages.

Control and data structures. Programme correctness.

*Pre-requisite:* CSC 158s/108Y (in 1973–74 only) / P.I.

*Instructor:* J. K. Metzger

CSC 258F **Computer Organization, 2L, 1T**

Computer structures, machine languages, instruction execution, addressing techniques, and digital representation of data. Computer system organization, memory storage devices, survey of logic design and micro programming. Some case studies of actual machines to illustrate various computer architectures.

*Pre-requisite:* CSC 158s/108Y (in 1973–74 only) / P.I.

*Instructor:* C. R. Crawford

CSC 361s **Numerical Analysis, 2L, 1T**

Analysis of methods for finding the roots of polynomials and non-linear equations, solving systems of linear algebraic equations and performing matrix calculations. Approximation theory. Interpolation and quadrature. Numerical solution of ordinary differential equations, including convergence theorems and stability. (May not be combined with APM 236s.)

*Pre-requisites:* CSC 158s and MAT 235/239

*Instructor:* C. R. Crawford

CSC 378F **Information Structures, 2L, 1T**

Data types and operations on them; storage representation and retrieval; access to vectors and matrices; lists, strings and arrays; relations between data; trees; graphs; representations of programmes; generalized data structures; data definition facilities in programming languages.

*Pre-requisites:* CSC 258F and 248s

*Instructor:* J. K. Metzger

MAT 110EF **Introductory Calculus, 2L, 2T**

(Intended for students who did not take Calculus in Grade XIII)

Differentiation and integration of elementary functions with applications.

*Exclusion:* Grade XIII Calculus, MAT 110ES/110/130/134/135/139/139E/150

*Instructor:* TBA

*Instructor:* (SDS) W. B. Lakin

MAT 120ES **Finite Mathematics, 2L, 2T**

Vectors and linear transformations. Matrices and their properties.



Notions of probability. Applications to linear programming, game theory, and Markov chains.

*Instructor:* TBA

*Instructor:* (SDS) W. B. Lakin

**MAT 134      Calculus for Social Scientists, 2L, 2T**

Limits, continuity, the derivative, extremal problems in one variable. The Riemann integral, antiderivatives and the fundamental theorem. Systematic techniques of integration. Vector spaces, linear transformations, matrices, determinants, linear equations. (MAT 134 has the same mathematical content as MAT 135, but illustrations will be drawn from the Social Sciences.)

*Exclusion:* MAT 110EF/s/110/130/135/139/139E/150

*Pre-requisite:* XIII Calculus

*Instructor:* TBA

*Instructor:* (WES) TBA

**MAT 135      Calculus for Scientists, 2L, 2T**

Limits, continuity, the derivative, extremal problems in one variable. The Riemann integral, antiderivatives and the fundamental theorem. Systematic techniques of integration. Vector spaces, linear transformations, matrices, determinants, linear equations. (MAT 135 has the same mathematical content as MAT 134, but illustrations will be drawn from the Physical Sciences.)

*Exclusion:* MAT 110EF/s/110/130/134/139/139E/150

*Pre-requisite:* XIII Calculus

*Instructor:* TBA

*Instructor:* (WES) TBA

**MAT 135E      Calculus and Linear Algebra**

Integral calculus of real functions. Topology of real vector spaces. Linear transformations. The derivative of a vector function, Jacobian matrix, chain rule. Applications to geometrical problems, to the kinematics of a particle, and to differential geometry of curves.

*Exclusion:* MAT 110EF/110ES/110/130/134/135/139/139E/150

*Pre-requisite:* Any two XIII Maths (75% or better)

*Instructor:* (SES) J. E. LeBel

**MAT 139E      Calculus and Linear Algebra I, 2L, 2T**

Integral calculus of real functions. Topology of real vector spaces. Linear transformations. The derivative of a vector function, Jacobian matrix, chain rule. Applications to geometrical problems, to the kinematics of a particle, and to differential geometry of curves.

*Exclusion:* MAT 110/130/134/135/139/150

*Pre-requisites:* XIII Calculus and Vectors and Matrices. (Students without Vectors and Matrices may enroll if they attend a special tutorial.)

*Instructor:* J. E. LeBel

MAT 140E **Abstract Mathematics**, 2L, 2T

1. Inequalities and topology of the real numbers. Properties of continuous functions.
2. Introduction to the concepts of abstract algebra including groups and rings.

*Pre-requisites:* Any two grade XIII maths.

*Instructors:* TBA

MAT 204EF **Modern Symbolic Logic**, 2L, 1T

- (I) (Same as PHL 250F) Symbolic logic provides precise and efficient techniques for analyzing informal reasoning. It is therefore useful in fields as diverse as law, philosophy, mathematics, and computer science. Profound theorems of mathematics, having important philosophical implications, have come from the study of symbolic logic.

*Instructor:* A. I. F. Urquhart

MAT 209ES **Set Theory**, 2L, 1T

- (I) (Same as PHL 353S) Does the barber who shaves just those who don't shave themselves shave himself? Is there a number bigger than infinity? Set theory is simultaneously the source and the solution of philosophical and mathematical paradoxes. In addition, it is the mathematics underlying all of mathematics.

*Pre-requisite:* MAT 204EF (formerly PHL 206F), C or better

*Instructor:* TBA

MAT 235 **Advanced Calculus for Scientists**, 2L, 1T (Not offered in 1973–74)

Sequences and series. Differential and Integral calculus of functions of several variables. Line and surface integrals. Ordinary differential equations. Emphasis throughout on applications.

*Exclusion:* MAT 230/234/239/239E/250

*Pre-requisite:* MAT 134/135/139/139E/150

*Instructor:* TBA

MAT 235E **Calculus and Linear Algebra II**, 2L, 1T

A continuation of MAT 135E. Orthogonality. Mean value theorem,

Taylor's approximation. Implicit and inverse function theorems. Multilinear algebra, determinants. Integration of vector functions, change of variable formula. Applications to extrema and probability.

*Pre-requisite:* MAT 135E with C or better

*Instructor:* J. E. LeBel

Note: This is the last year in which MAT 235E will be offered.

MAT 239E will be introduced in 1974-75.

**MAT 240E Algebra, 2L, 1T**

A continuation of MAT 140E including rings, integral domains, fields, polynomials, field extensions, and other topics.

*Pre-requisite:* MAT 140E, C or better

*Instructor:* V. Jurdjevic

**MAT 244F Differential Equations, 2L, 1T**

Ordinary differential equations of first and second order. Solution by series and integrals. Systems of first order, linear differential equations. Applications to various problems.

*Pre-requisite:* MAT 134/135/135E/139E

*Instructor:* P. H. H. Fantham

**MAT 320EF Topics in Mathematics I, 2L, 1T**

This course is intended to give a broad overview of mathematics through the study of a text such as H. Eves and C. Newsom, "An Introduction to the Foundations and Fundamental Concepts of Mathematics", movies, lectures, seminars, individual tutorials, and essay writing.

*Pre-requisite:* P.I. The class will be limited to 20 students with preference being given to applicants intending a career in teaching

*Instructor:* F. D. Tall

**MAT 325ES Topics in Mathematics II, 2L, 1T**

Similar in concept to MAT 320EF.

*Pre-requisite:* P.I. The class will be limited to 20 students with preference being given to applicants intending a career in teaching.

*Instructor:* D. F. Andrews

**MAT 335E Vector Calculus, 2L, 1T**

A continuation of MAT 235E. Elementary calculus on manifolds, Stokes' theorem. Complex variable theory, residue calculus, boundary value problems.

*Pre-requisite:* MAT 235E, C or better

*Instructor:* S. M. Trott

**MAT 340EF Advanced Abstract Mathematics I, 2L, 1T**

*Pre-requisite:* MAT 240E, C or better

*Instructor:* TBA

**MAT 345ES Advanced Abstract Mathematics II, 2L, 1T**

*Pre-requisite:* MAT 240E, C or better

*Instructor:* TBA

**MAT 399Y Independent Work in Mathematics**

A prospective student should select his topic and adviser before the end of second year and discuss the topic with his adviser.

*Pre-requisite:* Acceptance by an adviser

**STA 202EF Statistics, 2L, 2T**

(I) The purpose of this course is to acquaint beginning students in the biological, physical and social sciences with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about populations on the basis of samples.

*Instructor:* D. F. Andrews

**STA 232 Introduction to Statistics, 2L, 1T**

Elements of probability theory, common distributions, point and interval estimation, standard significance tests, introduction to least squares and analysis of variance.

*Pre-requisites:* MAT 135E, or MAT 135, or MAT 110EF/s and MAT 120EF/s

*Instructor:* TBA

*Instructor:* (WES) J. E. LeBel

**STA 332F Experimental Design, 2L, 1T**

The statistical aspects of collecting and analyzing experimental data, analysis of variance, orthogonal designs.

*Pre-requisite:* STA 232 (C or better) or P.I.

*Instructor:* D. F. Andrews

**STA 342S Regression Analysis, 2L, 1T**

Regression theory with applications to the analysis of non-orthogonal data.

*Pre-requisite:* STA 232 (C or better) or P.I.

*Instructor:* D. F. Andrews

**STA 357E Probability, 2L, 1T**

A thorough treatment of joint probability distributions, sequences of random variables, generating functions, law of large numbers and central limit theorem in Bernoulli case, introduction to Markov chains.

*Pre-requisite:* STA 232 (C or better) or P.I.

*Instructor:* TBA

**MUSIC**

Faculty Adviser: Dr. G. G. Jones

In the Faculty of Arts and Science, music is approached as one of the liberal arts and taught as cultural history.

The humanistic and historical approach aims for a high degree of correlation with other disciplines of the Faculty. To mention only a few possibilities, students of Fine Art will find fruitful parallels in MUS 100, 201 and 301; students of cultural anthropology should benefit greatly from MUS 200; students of languages and literatures will be interested to investigate how word and music interrelate in music and theatre, church music and song (MUS 301, 400, 401); while any student in the university who enjoys music will find MUS 100 a stimulating and critical introduction to world music.

**MUS 100 The Study of Music Literature, 2L, 1T**

An introduction to world music dealing with the repertory of western music from the Middle Ages to the 20th century, non-western music of high civilizations, and popular music. Discussion of form, style and the interrelationship of music and culture.

*Instructor:* G. G. Jones

**MUS 200 The Music of the World's People, 2L, 1T (Not offered 1973-74)**

A non-specialist introduction to the major musical cultures of the world. Comparative study of musical materials (melody, scales, rhythm and form), singing styles and instruments.

**MUS 201 Music in the Contemporary World, 2L (Not offered 1973-74)**

The modern repertoire, including electronic, non-western and popular music developments. A non-specialist view of recent historical, theoretical, technological and social advances in music.

*Pre-requisite:* MUS 100 or P.I.

**PHILOSOPHY**

Faculty Adviser: Professor W. J. Huggett

Philosophical questions are distinguished by their continuing fascination for the human mind and by the perennial elusiveness of their answers. But when even



moderate progress is made towards their solution, the impact upon the world of learning is often enormous. Revolutions in thought that shake the foundations of the existing sciences have occurred and exciting new disciplines have emerged. In addition, perplexing difficulties have been uncovered in the underpinnings of the natural and social sciences as well as in the presuppositions of morality, freedom, responsibility, religion, and conventionally accepted values.

The role of the philosopher is that of Socrates, the self-styled “gadfly”, who refuses to *play your game* but insists on examining it critically instead. He asks *why* you made that move, recommends alternative strategies, and may even question the value of the game itself. Socrates was the first philosopher-kibitzer and he was put to death.

We invite you to kibitz with us and acquire the tools and techniques necessary for clarifying and evaluating the life and thought of the present and of past ages. Apart from the physical hazard mentioned above, a critical scrutiny of your own most cherished convictions and deeply-rooted beliefs may well blow your mind.

Students interested in specializing in Philosophy should consult Professor Huggett.

*Although all courses in Philosophy are listed as half courses (with the exception of PHL 100), many of them are planned as the Fall or Spring portion of a single year-long course and are normally taught by the same instructor in both terms. Since related first and second term courses are not always listed consecutively below they are indicated by the words “IN SEQUENCE WITH” followed by the number of the related course.*

**PHL 100E    Introduction to Philosophy, 2L, 1T**

An examination of a wide range of representative and important philosophical questions, such as: are moral standards relative to one's society? Do human beings have freedom of the will? Are there rational grounds for belief in the existence of God? Is there such a thing as unselfish motivation? What is the relation between a person's mind and his body? Topics in semantics, logic and scientific method are also discussed with a view to avoiding certain common errors in reasoning.

*Instructor:* Staff

*Instructor:* (SES) TBA, (WES) TBA

**No course in Philosophy at the 200 level has any pre-requisites.**

**PHL 200S    Reason and Morality, 2L**

Can we function as human beings in society without some form of morality? We do in fact level moral accusations, express moral indignation, pass moral judgments, allot praise and blame, and justify our own actions, but how can anyone know what is morally right? And why should anyone do what is right when it is not to his advantage? This course examines the relation between reason and morality in interpersonal relations and considers arguments for hedonism,

utilitarianism, emotivism and egoism. (In sequence with PHL 205F.)

*Instructor:* TBA

**PHL 201F Ethical Theories, 2L**

A survey and comparison of some major philosophers' answers to such questions as: What ought I to do? What is good? What does it mean to be moral? Are there any absolute standards of right and wrong? Selected readings from the works of Plato, Aristotle, Hume, Kant, Mill and some contemporary philosophers are discussed and their relevance for contemporary problems examined. (In sequence with PHL 300s.)

**PHL 202F Aesthetics, 2L**

What is a hoax? How does one distinguish between a *genuine* work and a sham or a hoax or a fraud? In dealing with these questions light is shed on traditional puzzles in a wide range of art forms and media. Students who wish to concentrate upon one particular art form such as literature or music are encouraged to do so. (See also PHL 207s.)

*Instructor:* A. Rosenthal

**PHL 204s Literature and Philosophy, 2L**

Man's nature, his relation to his fellows and his place in the universe are all themes that have received significant literary and philosophical attention. Several major works of literature ranging all the way from Greek tragedy to science fiction are examined with a view to clarifying and evaluating the philosophical doctrines they reveal and reflect. Among the authors studied are Sophocles, Camus, Brecht, Golding, Dostoevsky, Tolstoy and Kafka.

*Instructor:* C. E. Cassin

**PHL 205F Contemporary Social Issues, 2L**

Sexual morality and marriage; abortion, drugs, and the law; women's liberation, capital punishment and pollution are among the issues raised. The structure and validity of the arguments employed are investigated and the tenability of various moral and other principles which they contain is examined. (In sequence with PHL 200s.)

*Instructor:* TBA

**PHL 207s Film Aesthetics, 2L, 2P (Not offered in 1973-74)**

A selection of films from a variety of film types is shown and against this background there is a discussion of various questions concerning the aesthetics of film, such as: principles of film criticism; film space;

form and content; the function of editing; acting; potentialities and limitations of the medium; "reality" in cinéma vérité. (See also PHL 202F.)

*Instructor:* J. V. Canfield

**PHL 210F    The State and the Citizen, 2L**

The role of civil disobedience in a democratic society, the distinction between violent and non-violent modes of social action, and the validity of present-day political radicalism. The views of contemporary social critics and philosophers on these and related themes are analyzed and assessed in order to throw light on such basic notions of political philosophy as the nature of the state, its justification and proper limits, and the obligations of citizens. (In sequence with PHL 312s.)

*Instructor:* TBA

**PHL 213S    The University and Canadian Society, 2L**

A philosophical examination of the goals and function of a university in society. What is the social function and justification of granting degrees, conducting examinations or making academic evaluations? What does society demand of a university and what should it demand? Can and should a university remain politically isolated? These questions are dealt with in the light of critical examination of current work in the philosophy of education, including writings by Paul Goodman and Noam Chomsky.

*Instructor:* C. E. Cassin

**PHL 216F    Deviance and Abnormality, 2L**

The notions of "deviance" and "abnormality" in the social sciences raise questions in theory of knowledge and ethics. According to what criteria do we decide that an action is "unnatural", a person is "insane" or "abnormal", a life-style is "deviant" or a political view is "irrational"? Is the application of these labels always arbitrary, subjective and culture-bound, or can it have some basis in human nature? (In sequence with PHL 314s.)

*Instructor:* A. Rosenthal

**PHL 220S    Belief, Knowledge and Truth, 2L**

Gullibility and credulity, fads and fallacies, hoaxes in science, religion and the arts. Against this background we deal with basic topics in the theory of knowledge, such as: certainty and skepticism, the subjectivity of perception, reason and rationality, theories of truth, and the criteria and justification of claims to know.

*Instructor:* A. Rosenthal

**PHL 230F    Existentialism and Phenomenology, 2L**

Sartre and Camus have helped make existentialism the most widely discussed philosophy of the present day. Existentialism derives in part from the work of phenomenologists who first stressed the philosophical importance of detailed and accurate descriptions of mental states and processes. The techniques of phenomenological analysis have been used by existentialists to provide a general description of the human condition—that relation between essence and existence which is peculiar to man. Both existentialism and phenomenology are analyzed and evaluated in this course.

*Instructor:* C. E. Cassin

**PHL 232S    The Philosophy of Bertrand Russell, 2L (Not offered in 1973–74)**

“Three passions, simple but overwhelmingly strong, have governed my life: the longing for love, the search for knowledge and unbearable pity for the suffering of mankind.” (Russell.) Throughout his long career, Russell has been associated with issues such as the emancipation of women, civil liberties and opposition to wars. He has invariably supported the individual as opposed to civil or religious authority and the spirit of free enquiry as opposed to dogma. We concentrate here on the social and political aspects of Russell’s thought.

*Instructor:* A. I. F. Urquhart

**PHL 240F    The Birth of Philosophy I: To Plato, 2L**

(I) Is morality merely an instrument in the hands of those who control the state? In answering this question Plato sketches the first account of a utopian society and deals with every important philosophical topic: the subjectivity of perception, the nature of knowledge, the relation between mind and body, the conventionalism or relativism of morality. Plato is the first major philosopher and his influence has been enormous. (In sequence with PHL 241s.)

*Instructor:* W. J. Huggett

*Instructor:* (WES) TBA

**PHL 241S    The Birth of Philosophy II: Aristotle and After, 2L**

(I) Aristotle, like his teacher Plato, deals with every important philosophical issue including the nature of the universe, God, man in society, and metaphysics and, like Plato, he leaves the stamp of his own genius upon each. His views largely determined thinking on these matters until the time of the Renaissance and they continue to exert a powerful though little-noticed influence upon the thought of our own day. We therefore stress the contemporary relevance of the doctrines



examined. (In sequence with PHL 240F.) *Only students who have taken PHL 240F may take this course.*

*Instructor:* W. J. Huggett

*Instructor:* (WES) TBA

**PHL 243F    The Age of Reason: 17th Century Thought, 2L**

This great formative era of modern philosophy is marked by the decline of mediaeval conceptions and the rise of modern science. Under the influence of the newly-emerging world-view, philosophers in this "age of reason" developed original analyses of knowledge and certainty, appearance and reality, freedom and necessity, mind and matter, deduction and experiment. Hobbes, Descartes, Spinoza and Locke are examined in some detail and others to a lesser extent. (In sequence with PHL 244s.)

*Instructor:* TBA

*Instructor:* (SES) W. J. Huggett

**PHL 244s    The Age of Enlightenment: 18th Century Thought, 2L**

The philosophers of this period developed further the insights of their predecessors. Berkeley is noted for his subtle and ingenious arguments whereby he challenges the reality of an external world of material objects. Hume is the major British philosopher and is renowned for his skeptical attacks upon established beliefs and doctrines. Kant, the major German philosopher, has been a most powerful influence dominating the thought of the nineteenth century. Other philosophers of the time are examined to a lesser extent. (In sequence with PHL 243F.)

*Instructor:* TBA

*Instructor:* (WES) W. J. Huggett

**PHL 250F    Modern Symbolic Logic, 2L, 1T**

(I) Symbolic logic provides precise and efficient techniques for analyzing informal reasoning. It is therefore useful in fields as diverse as law, philosophy, mathematics, and computer science. The most profound theorems of mathematics, having important philosophical implications, have come from the study of symbolic logic. (Same as MAT 204EF.) (In sequence with PHL 353s.)

*Instructor:* A. I. F. Urquhart

**PHL 261s    Philosophy of Religion, 2L**

What is the nature of religious belief and is it justifiable? In attempting to answer this and related questions we study primitive religion, three



Eastern religions (Confucianism, Taoism, and Buddhism), the ontological argument for the existence of God, the Freudian critique of religion, and the relationship between science and religion. (In sequence with PHL 270F.)

*Instructor:* TBA

**PHL 270F    Miracles, Mysticism, and the Occult, 2L**

A study of paranormal phenomena, the significance of the occult sciences, the possibility of miracles, disembodied existence, drug-induced states of mind and genuine mystical experiences. A selection will be made from an extensive philosophical literature dealing with these topics. (In sequence with PHL 261F.)

*Instructor:* TBA

**PHL 280F    Persons, Minds and Bodies, 2L**

What is a person? Is a person a body animated by a mysterious ghostly entity called a "mind" or a "soul"? Or should we say that when we talk of minds we are *really* talking about brains or about behaviour? We examine criteria of identity of persons over time and the justification of claims that the bodies we see are bodies of persons having thoughts and experiences like our own.

*Instructor:* TBA

**PHL 281S    Philosophical Psychology, 2L**

Are some problems in psychology fundamentally conceptual in nature and not amenable to solution by the experimental method? Modern philosophical techniques of philosophical analysis are introduced and used to throw light on this question and others that arise where philosophy and psychology overlap.

*Instructor:* TBA

**PHL 282S    Language and Communication, 2L**

Human language as a system of communication has had a profound impact on the way in which we organize and manipulate our environment. This influence was accelerated by such inventions as writing and the printing press. Have the electronic mass media of the present day produced further and revolutionary changes in our world-view and modes of awareness? We deal with these questions by examining the internal structure of language and the relation of language to the world and the human mind.

*Instructor:* A. I. F. Urquhart

**PHL 283s     The Analysis of Propaganda, 2L**

A philosophical examination of various techniques of persuasion including psychological warfare, indoctrination, brainwashing and advertising. Topics include the emotive use of language, persuasive definitions, informal fallacies, the ethical presuppositions of propaganda, and the relevance of contemporary analyses of morality to propaganda wars. The material examined includes black power literature, student protest literature, and Quebec separatist documents, as well as classical works such as the Communist *Manifesto* and Mill's *Utilitarianism*.

*Instructor:* A. Rosenthal

The general pre-requisite for 300 level courses is three half courses in Philosophy (PHL 100 counts as two half courses). However, where a particular course is specified by number as a pre-requisite, only that course is required.

**PHL 300s     Contemporary Ethical Theory, 2L**

An investigation of current trends in the fields of moral philosophy and metaethical theory. (In sequence with PHL 201F.)

*Pre-requisites:* Three half courses in Philosophy: PHL 200s/201F recommended

**PHL 312s     Philosophy of Law, 2L**

Law, paradoxically, provides both shackles and freedom. Is the law's double aspect due to the unique role it plays in organized societies and states? Can there be law without coercion? Should the law legislate morals? What is the rationale of legal punishment? Are judicial decisions arbitrary? Classical and contemporary theories of jurisprudence are assessed according to the answers they provide to these and related questions. (In sequence with PHL 210F.)

*Pre-requisites:* Three half courses in Philosophy or three courses in the Social Sciences: PHL 210F is recommended.

*Instructor:* TBA

**PHL 314s     Philosophy of Social Science, 2L**

Topics and issues include: subjectivism; objectivity and values, individualism; determinism and social change; the nature and use of models and theories; explanation in approaches like Functionalism and Behaviourism. (In sequence with PHL 216F.)

*Pre-requisites:* Two courses in the Social Sciences/P.I.

*Instructor:* TBA

**PHL 315S      Philosophy of History, 2L**

The concepts, presuppositions, methods and types of arguments used by historians are analyzed and assessed. Among the questions examined are these: What is the role of general laws in historical explanation? Can history be objective? Is history determined? Do historical explanations differ from scientific explanations? Is history without value-judgments possible?

*Pre-requisites:* Three courses in History or three half courses in Philosophy

*Instructor:* TBA

**PHL 330S      Problems in Existentialism and Phenomenology, 2L**

The study of either a problem or a particular philosopher's thought (e.g. Husserl, Merleau-Ponty, Heidegger) in order to deepen understanding of some form of phenomenological method. The student is encouraged to do independent research on authors of his choice within the broad tradition of phenomenological and existentialist thought and its relation to Marxism.

*Pre-requisites:* PHL 230F/344F

*Instructor:* TBA

**PHL 344F      Kant, 2L**

Kant is by universal consent one of the greatest thinkers of the modern world. There are scarcely any of the perennial problems of philosophy about which he did not think deeply and closely in terms of experience. Perhaps no thinker ever influenced his successors more. We examine systematically his most important work, *The Critique of Pure Reason*.

*Pre-requisites:* Three half courses in Philosophy: PHL 243F/244s recommended

*Instructor:* TBA

**PHL 347EF      Nineteenth Century Philosophy, 2L**

Traditional philosophical paths of reasoning and subject matter are abandoned in this most explosive and revolutionary period of thought. Philosophers like Hegel, Marx, Kierkegaard, Comte and Nietzsche bring in new concepts such as the effect of history upon philosophy, theories of dialectical materialism, existentialism, sociology, evolution and the influence of culture. Here begin the trends which lead up to many of the dilemmas of our own day.

(In sequence with PHL 348ES.)

*Pre-requisites:* Three half courses in Philosophy: PHL 244s/344F is recommended

*Instructor:* TBA

- PHL 348ES **Twentieth Century Philosophy, 2L**  
 A survey of some main trends in contemporary philosophy including influential contributions to the fields of logical analysis, linguistics and science. Among the more important figures studied are Russell, Moore and Wittgenstein. (In sequence with PHL 347EF.)  
*Pre-requisites:* Three half courses in Philosophy  
*Instructor:* TBA
- PHL 350F **Intermediate Logic: Provability and the Undecidable, 2L**  
 Advanced work in modern symbolic logic covering such topics as the scope and limits of proofs in formal systems, and the limitations of computability. (In sequence with PHL 351S.)  
*Pre-requisites:* PHL 250F/MAT 204E  
*Instructor:* TBA
- PHL 351S **Philosophy of Logic and Mathematics, 2L**  
 Some or all of the following topics are discussed from a semi-formal point of view: Platonism versus nominalism, the relation between logic and mathematics, epistemological implications of Gödel's and Church's theorems, counterfactuals necessity and possibility, extensional and intensional contexts, synonymy, intuitionism, . . . constructivity. (In sequence with PHL 350F.)  
*Pre-requisites:* PHL 250/MAT 204E  
*Instructor:* TBA
- PHL 353S **Set Theory, 2L, 1T**  
 (I) Does the barber who shaves just those who don't shave themselves shave himself? Is there a number bigger than infinity? Set theory is not only the source of philosophical and mathematical paradoxes but also provides the means for their solution. In addition, it is generally accepted as the mathematics underlying all of mathematics. (Same as MAT 209ES.) (In sequence with PHL 205F.)  
*Pre-requisite:* PHL 250F (Same as MAT 204EF)  
*Instructor:* TBA
- PHL 396F **Tutorial in Epistemology, 2T**  
 A concentrated examination of central topics in epistemology, e.g. necessary truth, perception, knowledge and belief. Not more than three students are assigned to each tutor.  
*Pre-requisites:* Three half courses in Philosophy: PHL 220S is recommended  
*Instructor:* Staff



**PHL 396S Tutorial in Epistemology, 2T**

A concentrated examination of central topics in epistemology, e.g. necessary truth, perception, knowledge and belief. Not more than three students are assigned to each tutor.

*Pre-requisites:* Three half courses in Philosophy: PHL 220s is recommended

*Instructor:* Staff

**PHYSICS**

Faculty Adviser: Professor H. W. Taylor

Physics was born of a desire to understand nature in a quantitative way. Guided by experiment and intuition, physicists arrive at mathematical relations among various concepts and these are then tested experimentally and extended by further research. The physics courses offered at Erindale are designed to help students both to understand and to use the concepts and relationships which have been developed, and to appreciate the need for continual questioning of scientific theories. The liberal arts student should gain insight into the nature of scientific investigation, while the student whose interest is in sciences other than physics should acquire a background knowledge leading to a deeper understanding of his own discipline. Students intending to specialize in physics will meet a broad programme of courses which will prepare them for advanced study.

The present programme in Physics at Erindale College employs the most up-to-date demonstration apparatus and undergraduate facilities. It has been designed to meet the diverse needs of the physics students of the College.

Students wishing to specialize in physics should consult a physics professor.

Recommended first-year programmes:

- i) for physics and science specialists:  
PHY 135E, MAT 135/MAT 139E
- ii) for generalists, pre-meds, etc.:  
PHY 110E, MAT 110EF and 120ES/MAT 135

Recommended further study for students of science not wishing to specialize in Physics:

PHY 230E, 330E.

Recommended further study for Physics specialists:

2nd year: PHY 230E, 252EF, 251ES, 211E, APM 251E, MAT 235E

3rd year: PHY 330E, 352E, 355E, 325E, APM 351E

4th year: PHY 450E, 451EF, 453EF, 455ES, 456ES



- PHY 110E **The World of Physics, 2L, 1T, 2P**  
 A survey course in Physics designed to meet the needs of students not intending to specialize in Physics. Topics include special relativity, gravitational, electric and magnetic forces, linear and rotational kinematics and dynamics. Recent developments in Physics are discussed briefly.  
*Pre-requisite:* MATH. XIII Relations and Functions  
*Co-requisite:* MAT 135/110EF and 120ES  
*Instructor:* S. S. M. Wong
- PHY 135E **Physical Mechanics, 2L, 1T, 2P**  
 A course in theoretical mechanics and properties of matter for students specializing in science. (May not be combined with PHY 110E.)  
*Pre-requisite:* GR. XIII Physics and MATH. XIII Relations & Functions and Calculus  
*Co-requisite:* MAT 135/MAT 139E  
*Instructor:* D. J. Dunlop
- PHY 230E **Electromagnetism and Modern Physics, 3L, 1T, 1P**  
 A basic course dealing with electric and magnetic fields in matter and empty space. Some basic concepts of modern physics are discussed in the last section of the course.  
*Pre-requisites:* PHY 110E/135E, MAT 135/110EF, 120ES or P.I.  
*Instructor:* TBA
- PHY 252EF **Thermal Physics, 2L, 1T, 1P**  
 An introduction to thermodynamics for students specializing in science. (May not be combined with CHM 220E.)  
*Pre-requisite:* PHY 135E/P.I.  
*Co-requisite:* APM 251E  
*Instructor:* D. J. Dunlop
- PHY 251ES **Wave Motion and Physical Optics, 2L, 1T, 1P**  
 An introduction to wave theory, interference and diffraction with applications in physical optics.  
*Pre-requisite:* PHY 135E/P.I.  
*Co-requisite:* PHY 230E  
*Instructor:* TBA
- PHY 211E **Electronics, 2L, 1T, 2P**  
 An introduction to modern electronics for students of physical science, biology, etc. Topics include circuit analysis; diodes, tubes and

transistors; amplifiers and oscillators; pulse and logic circuits; modern measurement techniques in the physical and life sciences.

*Pre-requisite:* PHY 110E/135E; MAT 110EF/135/139E/P.I.

*Instructor:* R. F. Code

PHY 330E **Quantum Physics, 2L, 1T**

An introduction to modern physics which includes a discussion of wave mechanics with applications to atomic physics.

*Pre-requisites:* PHY 230E, APM 251E

*Instructor:* S. H. Vosko

PHY 352E **Electromagnetic Theory, 2L, 1T**

A detailed description of Maxwell's equations and their application to selected electromagnetic phenomena.

*Pre-requisites:* PHY 230E, APM 251E

*Co-requisite:* APM 351E

*Instructor:* TBA

PHY 355E **Topics in Classical Theoretical Physics, 2L**

A discussion of selected topics from advanced dynamics and the partial differential equations of mathematical physics.

*Pre-requisites:* PHY 230E, APM 251E

*Co-requisite:* APM 351E

*Instructor:* TBA

PHY 325E **Advanced Physics Laboratory, 6P**

A set of experiments employing advanced techniques for selected areas of physics.

*Pre-requisite:* PHY 230E

*Instructor:* Staff

PHY 450E **Quantum Mechanics, 2L**

A basic course in non-relativistic quantum mechanics with applications to atomic physics, solid-state physics, etc.

*Pre-requisite:* PHY 330E

*Instructor:* TBA

PHY 451EF **Statistical Mechanics, 2L**

The general principles of statistical methods in physics will be discussed; Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac distributions with applications.

*Pre-requisite:* PH. 252EF and 330E

*Instructor:* TBA

**PHY 453EF Nuclear Physics, 2L**

A discussion of nuclear stability, radioactivity, nuclear radiations, nuclear reactions and fission.

*Pre-requisite:* PHY 330E

*Instructor:* TBA

**PHY 455ES Solid State Physics, 2L**

Description of crystal structures; diffraction of X-rays by crystals; lattice vibrations; elementary theory of electrons in crystals.

*Pre-requisite:* PHY 330E

*Instructor:* TBA

**PHY 456ES Quantum Optics, 2L**

A discussion of the interaction of radiation with matter including lasers, non-linear processes and scattering theory.

*Pre-requisite:* PHY 330E

*Instructor:* TBA

## POLITICAL SCIENCE

Faculty Adviser: Professor B. Kovrig

Political science is the study of politics and government. In general, politics are the ways in which the decisions are made about who is to rule in a society and what laws and policies are to prevail within its physical boundaries, while government is the process by which general rules are carried out. Part of political science is given over to describing specific processes or events—for example, a particular Canadian party leadership convention or such Canadian conventions generally—in somewhat the same way a biologist would describe something in physical nature. But political science will go from these particularities to generalizations. One may describe political violence in contemporary Canada within the framework of an analysis of violence in countries similar to ours or, even more generally, in all societies both past and present. The study of politics at Erindale deals not only with how politics and government *do* proceed but how they *should* be carried on in the light of a long tradition of political philosophy. Thus students will be introduced in some courses to such questions as—what tests do we apply to determine whether one kind of government is better than another? who should rule? under what conditions, if any, have people a moral obligation to disobey government?

In spite of its fascination for many people, political science is a demanding study. This is so partly because its subject-matter is very complex. But more than that, we all bring to political science opinions about what is and what ought to be which we

have accepted uncritically. Here are some questions to which most people would give ready answers:

- (1) are totalitarian nations more likely to have aggressive foreign policies than have democratic countries?
- (2) is it desirable that governments should not try to “legislate morality”?
- (3) are we more likely to control environmental pollution if we vest powers over such matters in larger rather than smaller units of government?

Although most of us would be willing to make snap judgments about such questions as these, each is very complex and our opinions are probably no better founded than are those of non-experts about, say, the law of relativity or the causes of the common cold. The study of political science will not eliminate political prejudices and is not directed toward eliminating political convictions but at a minimum it gives a person more ability than he had otherwise to give an account of the basis of his beliefs both about what the political world is and what it can and should be.

The *Specialist programme* requires standing in at least 10 courses in Political Science, of which at least 8 must be 200 or higher series courses, taken as part of a four year programme. Students taking a specialist programme must enrol with the Department of Political Economy. (*Note: COM 323, Introduction to Public Administration, can be considered as a POL course.*)

**SUGGESTED FIRST YEAR PREPARATION:** One or Two of: POL 100, POL 101, POL 104. POL 100 is a pre-requisite for advanced courses in Canadian Government and Public Administration. Students will find ECO 100 particularly useful.

## SECOND, THIRD, AND FOURTH YEARS

Students must include the following in their programmes:

At least two full year courses in Political Theory from POL 200, POL 321s, POL 329s, POL 400F (or from additional offerings on the St. George Campus).

At least one full course from each of FOUR of the following FIVE fields

- Comparative Politics (Developed Countries)
- Comparative Politics (Developing Countries)
- International Relations
- Canadian Government and Public Administration
- Political Behaviour

**POL 100      Introduction to Canadian Politics, 2L, 1T**  
An introduction to the political process in Canada, including political

culture and behaviour, political parties, the structure and function of political institutions, federalism, French Canada.

*Instructor:* P. Fox

*Instructor:* (SES) D. V. Smiley

POL 101

**Introduction to Political Science, 2L**

A reading of some important texts in political philosophy as a series of confrontations between five sets of political thinkers who were contemporaries of each other—Plato and Aristotle, Hobbes and Locke, Burke and Paine, Calhoun and Mill, Niebuhr and Marcuse. Many of the most crucial questions of politics will be raised in terms of the claims of government, the limits of legitimate political authority, the nature of human rights and what kinds of knowledge we can have about politics.

*Instructor:* D. V. Smiley

POL 104

**Foreign Political Institutions, 2L, 1T**

A contemporary course stressing foreign political movements and forms of government relevant to twentieth century politics: Presidential government (U.S.); Parliamentary systems (France and Germany); Soviet Communism; and the fascism of Mussolini's Italy and Nazi Germany.

*Instructor:* J. E. Smith

POL 200

**History of Political Thought, 2L**

Examines fundamental concepts and themes of the main political philosophers of the Western world from classical Greece to the modern times.

*Instructor:* J. Colman

POL 201

**Political Behaviour, 2L**

An introduction to the social and psychological study of politics.

*Instructor:* J. Terry

POL 202

**The State and Economic Life, 2L**

Considers the main premises of Marxism, liberalism and Democratic Socialism; the relationship between the Welfare State and the Rule of Law; economic planning and trade union activity in socialist and mixed economies; the role of interest groups in an administrative society; and the relation between political and economic structures.

*Instructors:* D. V. Smiley and R. B. Day



- POL 203     **Politics and Government of the United States, 2L** (Not offered in 1973–74)  
Examines the evolution of the American Constitution as well as the actual operation of government through the workings of politics and administration; it covers executive-legislative relations, parties, pressure groups, and the bureaucracy.  
*Instructor:* TBA
- POL 204     **Soviet Government and Politics, 2L, 2T** (First part of course lectures, second part seminars)  
A survey of Soviet political institutions and processes, concentrating on the evolution of the Soviet political system and applying social science techniques to an analysis of current Soviet politics.  
*Instructor:* R. B. Day  
*Instructor:* (WES) R. B. Day
- POL 208     **International Relations, 2L**  
A study of international systems with emphasis on the sources, patterns, and resolution of interstate conflict.  
*Instructor:* R. Gregor  
*Instructor:* (WES) R. Gregor
- POL 209  
(I)     **Science, Technology and Public Policy, 2L** (Not offered in 1973–74)  
Examines the social impact of advances in science and technology and governmental efforts to frame and implement “science policy”. Among topics examined are: the social responsibilities of scientists and engineers, the prospects for democracy in view of the need for technology expertise, and controversial policy issues involving scientific considerations.  
*Instructor:* S. A. Lakoff
- POL 212E     **Political Mass Movements, 2L**  
Examines the values and inherent complexities of democratic society and its non-democratic alternatives, i.e. Communism, Fascism, Nazism.  
*Instructor:* J. Barros
- POL 302S     **Politics and Government of Western Europe, 2L** (Not offered in 1973–74)  
*Instructor:* TBA

- POL 303F **Politics and Government of the United Kingdom, 2L** (Not offered in 1973–74)  
 A survey with particular emphasis on contemporary British problems, relating these to some general themes concerning the nature, strengths and weaknesses of liberal democracy.  
*Instructor: R. B. Day*
- POL 304 **Politics of the Third World, 2L** (Not offered in 1973–74)
- POL 320 **Modern Political Thought, 2L**  
 This course examines the development of political thought in the period beginning after the French Revolution and continuing through the nineteenth century, with special attention to the implications of this development for political thought in the twentieth century. Both democratic and anti-democratic tendencies are considered.  
*Instructor: C. H. Fairbanks*
- POL 323 **Topics in Canadian Politics, 2L**  
 A workshop or seminar meeting weekly in two-hour sessions. Students will be responsible for completing one major research or reading project or alternatively two term projects in areas of their own choosing in Canadian politics. Sessions will be devoted to reviewing and analyzing material related to course topics and to reports on work in progress or completed.  
*Pre-requisite: POL 100/P.I.*  
*Instructor: F. W. Peers*
- POL 327 **Comparative Foreign Policy, 2L**  
 An examination on a comparative basis of the foreign policies of the United States, the Soviet Union, Great Britain, France, Germany, and India.  
*Instructor: R. Gregor*
- POL 328 **International Organization, 2L**  
 International organization and international law (the UN and League systems, etc.) as instruments for conflict resolution in the international state system.  
*Instructor: J. Barros*
- POL 329S **Marxism-Leninism, 2L** (Not offered in 1973–74)  
 A survey of Marxist political thought dealing with the works of Marx; the German Social Democrats; Lenin, Trotsky and the Russian

revolution; Maoism, and the problems of modern Communism.

*Pre-requisite:* P.I.

*Instructor:* R. B. Day

POL 340

**Undergraduate Thesis**

An independent research course to be undertaken by students specializing in Political Science.

*Pre-requisite:* P.I.

*Instructors:* Staff

POL 411F

**Canadian Federalism, 2L** (Not offered in 1973–74)

A study of contemporary Canadian federalism with emphasis on federal-provincial financial and administrative relations, the constitutional division of legislative powers, federal aspects of partisan-political relations and cultural duality.

*Pre-requisite:* POL 100/P.I.

*Instructor:* D. V. Smiley

POL 413S

**Provincial and Local Government, 2L** (Not offered in 1973–74)

*Pre-requisite:* POL 100/P.I.

*Instructor:* TBA

POL 414S

**Politics and Government of Communist East Europe, 2T** (Not offered in 1973–74)

An area study course with particular emphasis on problems of regional integration and the influence of ideology and the Soviet Union.

*Pre-requisite:* P.I.

*Instructor:* B. Kovrig

POL 415

**Seminar in International Politics, 2L** (Not offered in 1973–74)

A seminar dealing with certain selected topics in International Relations largely based on the students' own presentation.

*Pre-requisite:* POL 208 or POL 327 or POL 328

*Instructors:* B. Kovrig and J. Barros

POL 422

**Dynamics of Soviet Politics, 2L**

An analysis of the decision-making process in the Soviet political system.

*Pre-requisite:* POL 204

*Instructors:* F. J. C. Griffiths and P. H. Solomon

## PSYCHOLOGY

Faculty Adviser: F. I. M. Craik

Psychology is the science which examines the structure and organisation of behaviour in animals and man. It is concerned with the means by which behaviour is acquired and explores the mechanisms of adaptation to the social and physical environment. Emphasis is directed toward cognitive, social, physiological, genetic, and other factors which determine or affect behaviour. Among the topics covered by psychology courses are developmental changes in behaviour, learning, the structure and organisation of the senses, modes of perceiving and responding, the environmental and genetic events which shape behaviour, the origins and implications of drives, motives, conflicts, and emotion, and the wide variety of individual and species differences which are produced by differences in genetic endowment, physiology, and past experience.

Because of the demands of science for rigour and objectivity, stress is given to the techniques by which behaviour is studied. Because psychology is the science of the behaviour of all organisms, the discussion of animal behaviour constitutes an important part of many psychology courses. An intensive examination of experimental findings is paramount in all psychology courses.

Students who are interested in psychology as a career must be prepared for several years of graduate study. Persons who hold a Ph.D. in psychology find employment in universities, research institutes, mental hospitals and clinics, government agencies, and large corporations. A few work as self-employed consultants or therapists. The B.Sc. with a concentration in psychology is not itself a professional qualification. People holding bachelor's degrees in psychology typically find employment in a wide variety of business, technical, educational, or social-service areas. However, further formal or on-the-job training is usually required. Nevertheless, undergraduate courses in psychology may be valuable to students planning various professional careers (e.g. in medicine, law, nursing, education, etc.).

There is no prescribed specialist programme in psychology. However, a student aiming for a career in psychology, and who thus plans to make application for graduate study, should take special care in the selection of his courses. Graduate schools typically require inclusion of statistics and laboratory courses in the undergraduate programme as pre-requisites for admission to graduate studies. Maintenance of at *least* a high "B" overall average in undergraduate work, high scores on scholastic aptitude tests, and recommendations from undergraduate professors are also typically required for admission to graduate study. Students planning a career in psychology are strongly urged to seek the advice of psychology professors about the details of their undergraduate programmes.

PSY 100      **Introductory Psychology, 2L**

Psychology is the science of behaviour; and this course seeks to

acquaint the student with the scientific method as it is applied in attempting to understand both human and animal behaviour. *This course is a strongly recommended pre-requisite for all other psychology courses.*

*Instructor:* Staff

*Instructor:* (SES) TBA, (SDS) I. M. Spigel, (WES) F. I. M. Craik, T. M. Alloway

**PSY 200F     Statistics and Research Design I, 3L**

Basic descriptive and inferential statistics.

*Instructor:* TBA

**PSY 201S     Statistics and Research Design II, 3L**

Concerned with the design of experiments and the more advanced methods of statistical analysis, including complex analysis of variance.

*Pre-requisite:* PSY 200F or equivalent

*Instructor:* TBA

**PSY 203EF     Introduction to Social Psychology, 3L**

A survey of contemporary areas of research in social psychology. Areas to be considered include social perception, attitudes, interpersonal relations, group processes, and ethnic attitudes.

*Pre-requisite:* PSY 100

*Instructors:* P. Pliner, R. Rosenbaum

*Instructor:* (WES) P. Pliner, R. Rosenbaum

**PSY 204ES     Personality, 3L**

Emphasis on empirical research in such areas as authoritarianism, need for achievement, manifest anxiety, self-concept.

*Pre-requisite:* PSY 100

*Instructors:* P. Pliner, R. Rosenbaum

**PSY 204EF     Personality, 3L**

*Instructor:* (SDS) K. R. Blankstein

**PSY 206EF     Psychology of Language and Thinking, 3L**

An introduction to the psychology of higher mental processes with an emphasis on thinking, problem-solving and language.

*Pre-requisite:* PSY 100

*Instructor:* TBA

*Instructor:* (SDS) P. Langford



- PSY 208EF **Sensory and Perceptual Processes, 3L**  
Examination of theoretical and experimental efforts aimed at understanding sensory and perceptual function. Emphasis will be placed on vision research at both the physiological and behavioural levels.  
*Pre-requisite:* PSY 100  
*Instructor:* I. M. Spiegel  
*Instructor:* (WES) I. M. Spiegel
- PSY 209ES **Physiological Psychology, 3L**  
An introduction to the study of the neural and endocrinological basis of behaviour.  
*Pre-requisite:* PSY 100  
*Instructor:* M. Moscovitch
- PSY 209EF *Instructor:* (SES) M. Moscovitch
- PSY 213EF **Comparative Psychology, 3L**  
The innate and learned social responses of a variety of animals will be studied with emphasis on both the similarities and differences in species-specific modes of responding.  
*Pre-requisite:* PSY 100  
*Instructor:* L. Krames  
*Instructor:* (WES) L. Krames
- PSY 216ES **Experimental Design and Theory, 3L**  
Problems involved in experimental design and the interpretation of experimental findings; the logical structure of psychological theories. Practice in the critical evaluation of experimental designs and the correction of experimental errors.  
*Pre-requisite:* PSY 100  
*Instructor:* T. M. Alloway  
*Instructor:* (WES) I. M. Spiegel
- PSY 218EF **Classical and Instrumental Conditioning, 3L**  
Phenomena of classical and instrumental conditioning in mammals will be discussed from both an empirical and a theoretical point of view. Seeks to acquaint the student with most of the basic findings in this area.  
*Pre-requisite:* PSY 100  
*Instructor:* T. M. Alloway  
*Instructor:* (SDS) T. M. Alloway, (WES) T. M. Alloway

- PSY 300EF **Population Regulation Mechanisms, 2L** (Not offered in 1973–74)  
 Seminars covering the behavioural and genetic aspects of population regulation. Students present papers and lead discussions on selected topics. Emphasis will be on mammals and insects. (May not be combined with JPZ 200E 1971–72 Calendar.)  
*Pre-requisite:* P.I.  
*Instructor:* L. Krames
- PSY 310EF† **Individual Project**  
 Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.  
*Pre-requisites:* PSY 200F, 201S, a laboratory course and P.I.  
*Instructor:* Staff
- PSY 311ES† **Individual Project**  
 Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.  
*Pre-requisites:* PSY 200F, 201S, a laboratory course and P.I.  
*Instructor:* Staff
- PSY 326ES **Abnormal Psychology, 3L**  
 A survey of theories and research on abnormal behaviour and psychological treatment with special emphasis on social learning theory and behaviour modification techniques.  
*Pre-requisite:* PSY 204ES/PSY 218EF and P.I.  
*Instructor:* K. R. Blankstein  
*Instructor:* (SDS) K. R. Blankstein, (WES) K. R. Blankstein
- PSY 350EF **Human Memory and Learning, 3L**  
 Facts, theories, and methods in the study of human learning. Major emphasis will be on recent trends in the study of verbal learning, memory and verbal behaviour.  
*Pre-requisite:* PSY 100 (PSY 216ES recommended)  
*Instructor:* F. I. M. Craik  
*Instructor:* (SDS) F. I. M. Craik
- PSY 351ES **Laboratory in Human Memory and Learning, 3P**  
 Experiments will be carried out to illustrate recent theoretical and experimental issues. Students use themselves (and other students) as subjects and are encouraged to design, carry out and write up experiments in this area.

*Pre-requisites:* PSY 200F, PSY 350EF/PSY 214EF 1971–72 Calendar  
(Also recommended PSY 201s and PSY 216ES)

*Instructor:* F. I. M. Craik

*Instructor:* (WES) F. I. M. Craik

PSY 353ES **Laboratory in Sensory and Perceptual Processes, 1L, 3P**

The fundamentals of sensory and perceptual processes, chiefly visual. Students conduct weekly laboratory experiments, using each other as subjects. (May not be combined with PSY 208s.)

*Pre-requisite:* PSY 208EF

*Co-requisites:* PSY 200F and PSY 201s recommended

*Instructor:* TBA

PSY 354EF **Laboratory in Physiological Psychology, 1L, 2P** (Not offered in 1973–74)

A laboratory investigation of the physiological underpinnings of behaviour.

*Pre-requisites:* PSY 200F and PSY 201s (Recommended PSY 100 and 209ES) and P.I.

*Instructor:* TBA

PSY 355ES **Laboratory in Psychobiology, 1L, 3P**

Supervised demonstration experiments designed to familiarise students with methods of collecting, analysing, and reporting data in ethological and physiological experiments employing animal subjects. Students will also learn how to handle selected species of animals.

*Pre-requisites:* PSY 200F, PSY 201s and either PSY 209ES or PSY 213EF

*Instructor:* M. Moscovitch

PSY 356ES **Laboratory in Social Psychology, 1L, 3P**

Independent research projects in the general areas of social, personality or developmental psychology. Each project will include the design of an experiment, data collection, and a written report.

*Pre-requisites:* PSY 200F, 201s, one of 203EF, 204ES or 368EF

*Instructor:* R. Rosenbaum

PSY 362ES **Animal Behaviour and Ethology, 3L**

A study of the social behaviour of organisms (human and non-human) as observed and measured in both laboratory and field settings.

*Pre-requisites:* PSY 100, PSY 213EF and some statistics recommended.

Available to Second Year students on P.I.

*Instructor:* L. Krames

*Instructor:* (WES) L. Krames

- PSY 362EF **Animal Behaviour and Ethology**  
Same as 362ES above.  
*Instructor:* (SDS) L. Krames
- PSY 364ES **Social Psychology: Attitudes, 3L** (Not offered in 1973–74)  
Intensive study of social attitudes and opinions—their development, description and measurement, modification, and organisation.  
*Pre-requisite:* PSY 203EF and P.I.  
*Instructor:* TBA
- PSY 365ES **Social Psychology: Inter-personal Behaviour, 3L**  
Detailed analysis of some of the determinants and consequences of various forms of social interaction; conformity and social influence, social comparison, affiliation.  
*Pre-requisite:* PSY 203EF and P.I.  
*Instructor:* P. Pliner
- PSY 366ES **Social Psychology: Social Perception, 3L** (Not offered in 1973–74)  
Examination in depth of the ways in which people view others and of the psychological processes underlying these views: impression formation, ingratiation and the presentation of self, cognitive consistency.  
*Pre-requisite:* PSY 203EF and P.I.  
*Instructor:* R. M. Rosenbaum
- PSY 368EF **Developmental Psychology: Childhood, 3L**  
A survey of contemporary research and theory in the scientific study of the behaviour of children.  
*Pre-requisite:* PSY 218EF is strongly recommended and P.I.  
*Instructor:* C. Corter  
*Instructor:* (WES) C. Corter
- PSY 370EF **Motivation, 3L**  
A view of the crucial variables which serve as an impetus to behaviour in both human and non-human organisms.  
*Pre-requisite:* Recommended PSY 100 and PSY 209ES. Available to second year students on P.I.  
*Instructor:* M. Moscovitch  
*Instructor:* (WES) TBA
- PSY 371EF **Advanced Physiological Psychology, 3L** (Not offered in 1973–74)  
Current areas of research in physiological psychology will be explored

in detail. These areas will include the following: the hormonal basis of human and animal behaviour, the development of motivational systems and perceptual capacities, the physiological bases of memory, language, and other higher cortical functions in man, and the neurochemical bases of sleep and emotion.

*Pre-requisite:* PSY 209ES and P.I.

*Instructor:* M. Moscovitch

PSY 372EF **Psychophysiology, 3L**

Examines the interrelationships between physiological and psychological aspects of behaviour. The emphasis is on studies employing human subjects whose physiological responses are recorded on a polygraph while stimuli are presented which are designed to influence mental, emotional or motor behaviour.

*Pre-requisite:* PSY 218EF and P.I.

*Instructor:* K. R. Blankstein

PSY 373ES **Comparative Psychology of Learning, 3L**

The learning capacities of a number of different kinds of animals will be discussed and compared. Consideration will be given to theoretical and practical problems encountered in attempting to understand the evolution of learning capacities.

*Pre-requisite:* PSY 218EF and P.I.

*Instructor:* T. M. Alloway

*Instructor:* (SDS) T. M. Alloway

PSY 374ES **Laboratory in Psychophysiology, 3P**

The fundamentals of psychophysiological research. Students conduct weekly laboratory experiments with the polygraph, using each other as subjects. Topics include recording, scoring and quantification problems, autonomic reactivity, habituation, reaction time, classical and instrumental conditioning, biofeedback and lie-detection.

*Pre-requisites:* PSY 200EF, PSY 201ES, PSY 372EF and P.I.

*Instructor:* K. R. Blankstein

PSY 378ES **Developmental Psychology: Cognitive Development, 3L**

A survey of contemporary research and theory in the development of language, thinking and intelligence, including a consideration of Piaget's views.

*Pre-requisite:* PSY 100 and P.I.

*Instructor:* TBA

*Instructor:* (SDS) P. Langford



- PSY 380ES **Developmental Psychology: Early Social Behaviour, 3L**  
 An examination of research on topics such as attachment, dependency, and peer relations in infants and young children.  
*Pre-requisite:* PSY 368EF and P.I.  
*Instructor:* C. Corter
- PSY 380EF **Developmental Psychology: Early Social Behaviour, 3L**  
*Instructor:* (SDS) C. Corter
- PSY 400E **Thesis Research**  
 In addition to periodic seminars, students will conduct independent, though supervised, research and write a thesis based upon the work.  
*Pre-requisites:* PSY 200F, 201s, one year of Psychology laboratory courses and a good background in psychological course work. For fourth year students only, and with permission of a supervisory staff member.
- PSY 405E **Current Issues in Psychology, 3T**  
 This seminar course attempts to integrate strands of psychological thinking from the various more specific courses which the student has already taken. Staff members will examine theories and findings from their own area of interest and place them in a broader context.  
*Pre-requisite:* P.I. For third and fourth year students with a good background in psychological course work  
*Instructor:* Staff
- PSY 410ES\* **Topics in Developmental Psychology, 3T**  
*Pre-requisites:* PSY 200F, 201s and P.I.  
 For fourth year students
- PSY 412EF† **Individual Project**  
 Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.  
*Pre-requisites:* PSY 200F, 201s, a laboratory course and P.I.  
*Instructor:* Staff
- PSY 413ES† **Individual Project**  
 Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.  
*Pre-requisites:* PSY 200F, 201s, a laboratory course and P.I.  
*Instructor:* Staff

- PSY 415ES\* **Theories of Psychotherapy, 3T**  
*Pre-requisites:* PSY 200F, 201S and P.I.  
 For fourth year students
- PSY 420EF\* **Topics in Social Psychology, 3T**  
*Pre-requisites:* PSY 200F, 201S, and P.I.  
 For fourth year students
- PSY 425EF\* **Topics in Abnormal Psychology, 3T**  
*Pre-requisites:* PSY 200F, 201S, and P.I.  
 For fourth year students
- PSY 430EF\* **Topics in Comparative Psychology, 3T**  
*Pre-requisites:* PSY 200F, 201S, and P.I.  
 For fourth year students
- PSY 435ES\* **Topics in Learning, 3T**  
*Pre-requisites:* PSY 200F, 201S, and P.I.  
 For fourth year students
- PSY 440ES\* **Computer Applications, 3T**  
*Pre-requisites:* PSY 200F, 201S, and P.I.  
 For fourth year students
- PSY 445ES\* **Topics in Motivation and Arousal, 3T**  
*Pre-requisites:* PSY 200F, 201S, 370ES and one year laboratory course work in Psychology, and P.I. For fourth year students
- PSY 450EF\* **Topics in Personality, 3T**  
*Pre-requisites:* PSY 200F, 201S, 204ES, and P.I. For fourth year students

\*Only one or two of these courses will be offered in 1973-74. The attention of advanced psychology students is drawn to PSY 405E, Current Issues in Psychology, which covers topics in various areas of psychology at an advanced level.

†Relevant faculty member must be consulted during preceding term.

## RELIGIOUS STUDIES

Faculty Adviser: Professor L. J. Elmer

Religious Studies, as an academic discipline, is based upon a recognition of the fundamental significance of religion for man and society. Its intent is to provide students with an opportunity to deepen their understanding of man and his

institutions and to explore in various ways the ultimate questions and convictions which have affected the foundations of his life throughout history. Among the perspectives and methods involved in the courses are those of History, Philosophy, Psychology, Anthropology, and Sociology.

Historically, man has expressed his profoundest convictions, questions, aspirations, and fears in many ways. His art, philosophy, conduct, social institutions, even his theories about the physical universe, have conveyed and illuminated his measure of himself and of the world in which he lives. From time to time these forms of expression coalesce within a particular pattern and tradition which we may identify as a “great” or a “world” religion, but along with such religions—both within them as well as outside them—are the individuals, each with his own personal convictions, values and interpretations of experience and of the symbols by which he represents to himself the ultimate concerns of life. The examination of all this constitutes the academic enterprise which we title Religious Studies.

A specialist programme normally requires an academically coherent combination of at least ten courses in Religious Studies or courses officially cross-listed by the Combined Departments for Religious Studies chosen in consultation with a faculty adviser so as to serve the interests of the student. It is ordinarily expected that the Programme will take four years. A coherent Programme should expose the student to a range of world religions and approaches to the study of religion. Suggested combinations of courses are outlined in the departmental brochure, available at the College Registrars’ office.

REL 100

### **World Religions**

An introductory course exploring the major living religious traditions of the East and West: Judaism, Zoroastrianism, Christianity, Islam, Hinduism, Buddhism, Confucianism, Taoism and Shintoism. Citations from the sacred scriptures of these religions will be studied in translation. Comparisons in ideas, attitudes, beliefs and practices will be considered. Pictorial data, slides and films will be used in describing the rituals and ceremonies of the diverse religions. The breadth of the course will deepen one’s understanding of man’s profoundest religious expressions, aspirations, convictions and concerns in life. Special tutorials will be arranged for those preparing to teach World Religions.

*Instructor:* (WES) S. A. Nigosian

REL 175E

### **The Wisdom and the Folly: An introduction to contemporary Religious thinking, 2L, 1T**

The purpose of this course is to acquaint the student who has little or no background in the area with the writings of contemporary theologians on the perennial themes of faith, hope and love. Carefully

selected readings by John Robinson, Paul Tillich, and Teilhard de Chardin will be set off against those by Harvey Cox, Sam Keen and Robert E. Capon. Students will be expected to participate in tutorials as well as complete written assignments.

*Instructor:* L. E. Schmidt

**REL 203 Religion and Imaginative Literature, 2L, 1T**

Analysis and interpretation of different kinds of religious insights in great authors; developments of responsible approaches to the seriousness of the concerns expressed in various kinds of literatures: Dostoevsky, Tolstoy, Joyce, Eliot, Mauriac, Bernanos, Camus, Miller, Salinger, Updike, St. Exupery. (May not be combined with REL 302, 1971-72 Calendar.)

*Instructor:* M. Lavelle

*Instructor:* (SES) M. Lavelle

**REL 250EF Evolution and Evil**

- (I) This course will examine the thought and spirit of Teilhard de Chardin as a Christian interpretation of the evolutionary theory. Particular emphasis will be given to the problems and mystery of evil in relation to evolution and Christianity. The dignity and value of human work and the relevance of Teilhard de Chardin for 20th century man are other pivotal issues. Method of evaluation will be based principally on two pieces of written work.

*Exclusions:* REL 250ES, 251E

*Instructor:* (SDS) L. J. Elmer

**REL 251E Evolution and Evil—in the thought of Teilhard de Chardin, 2L, 1T**

- (I) This course will examine the thought and spirit of Teilhard de Chardin as a Christian interpretation of the evolutionary theory. Particular emphasis will be given to the problem and mystery of evil in relation to evolution and Christianity. The dignity and value of human work and the relevance of Teilhard de Chardin for 20th century man are other pivotal issues. Principal texts: *The Phenomenon of Man* and *The Divine Milieu* both by Teilhard de Chardin.

*Exclusion:* REL 250EF and REL 250ES

*Instructor:* L. J. Elmer

*Instructor:* (WES) L. J. Elmer

**REL 265ES Religious Geniuses—East and West**

- (I) Religious geniuses at various times and places have either challenged, discarded or reinterpreted traditional views as being



inadequate or obsolete. This course will critically examine and compare the lives, teachings, and contributions of some of the following: Moses, Buddha, Lao-Tzu, Confucius, Zoroaster, Jesus and Mohammed. Particular emphasis will be placed on the relevancy of their views and teachings upon contemporary society.

*Exclusion:* REL 266E

*Instructor:* (SDS) S. A. Nigosian

REL 266E **The Bible and Its Literary Antecedents, 2L, 1T**

A course designed to introduce students to the history, structure, purpose and content of the Bible against the background of parallel literary writings of the period. Particular reference will be made to the following: the Old Testament and its antecedents (Mesopotamian, Egyptian, Canaanite literature), the New Testament and its antecedents (Apocrypha, Apocalyptic, and Rabbinic literature and the Dead Sea Scrolls). Textual and topical discussions will be mainly from the reading of primary sources in translation.

*Instructor:* S. A. Nigosian

REL 360 **Mystery, Magic and Religion**

An intensive study that will examine the Hellenistic, Judaic, Christian, and Oriental "religious" heritage in ancient Western Asia. Particular emphasis will be placed on the following: (1) understanding the religious needs and expressions of the age; (2) the role and inter-relationship of these various religious traditions; (3) the influence and impact of these various religious traditions upon Western society, culture and religious heritage.

*Instructor:* (WES) S. A. Nigosian

REL 375E **Communication and Religious Consciousness, 2L, 1T**

The purpose of this course will be to study the development of religious identity both from a psychological (Erik Erikson: *Identity: Youth and Crisis*) and a sociological (Peter Berger: *The Sacred Canopy*) point of view, and to examine the pervasive effects of the communications media (McLuhan: *Understanding Media*) on this development. The function of mythic acts, clothes, cosmetics, dance, music, academic structures, novels, movies, newspapers, as well as more personal forms of communication (diary, autobiography, letter, etc.) in the creation of religious consciousness will be examined. (May not be combined with REL 211, 1971-72 Calendar.)

*Instructor:* L. E. Schmidt



## SLAVIC LANGUAGES AND LITERATURES

*Instructor:* N. N. Shneidman

The Slavic literary and cultural tradition represents one of the great achievements of mankind. The Department offers a range of courses in Russian language and literature to provide access to that tradition. These courses are suitable for inclusion in a wide variety of programmes of study irrespective of whether the student has studied Russian in Grade XIII or not. Some students may specialize intensively in Russian language and literature. Others may simply wish to gain a working knowledge of Russian to aid their reading of important material in another field, as for example, science or social science. Language study in the Department emphasizes skills in using literary materials, and it also employs oral methods, combining small instructional groups with laboratory and conversational practice.

Russian literature has always been concerned with meaningful and universal human problems and has looked at them from a fresh and unique point of view. Giants of world literature such as Pushkin, Turgenev, Tolstoy and Dostoevsky, explore these problems in their nineteenth century novels, plays and poetry. The continuation and development of this same tradition under new Soviet conditions in the twentieth century by writers such as the Nobel Prize Winners, Sholokhov, Pasternak and Solzhenitsyn, makes another fascinating area of study.

The specialist programme in Russian Language and Literature requires ten SLA courses over the four-year programme. The specialist programme in Slavic Languages and Literature requires eleven SLA courses over the four-year programme. Both programmes include seven Russian "core" courses required for the Russian component in double specialization.

Erindale College offers a full range of courses required for specialization in Russian Language and Literature for the first three years of study.

First-year programme: required SLA 100, recommended SLA 110E

Second-year programme: required SLA 210, SLA 220

Third-year programme: required SLA 310, SLA 320; recommended SLA 312, SLA 316

Students who have taken Grade XIII Russian are admitted to SLA 220 (Intermediate Russian Language).

**SLA 100      First Year Russian, 4T, 1P**

An introductory course in Modern Russian for students with little or no prior knowledge of the language. Practice in aural comprehension, speaking, reading, and writing. Language laboratory practice.

*Instructor:* K. Lantz

**SLA 110E      Introduction to Slavic Culture and Literature, 1L, 1T (In English)**

The historical development of Slavic culture, language, and literatures from the beginning to the present. Readings (in translation)

selected from all periods of Russian, Ukrainian, Polish, and other Slavic literatures, including works by Dostoevsky, Solzhenitsyn, Shevchenko, Mickiewicz.

*Instructor:* N. N. Shneidman

*Instructor:* (WES) TBA

- SLA 210     **Nineteenth Century Russian Literature, 2L, 1T (In English)**  
           (I)     A study of the major novels of the nineteenth century with emphasis on the problem of the individual and society. Readings (in translation) of the works of Pushkin, Gogol, Turgenev, Dostoevsky, Tolstoy, and others. Students specializing in Russian will be required to do a certain amount of reading in the original.  
*Instructor:* K. Lantz
- SLA 211     **Masterworks of Russian Literature in Translation**  
           (I)     A study of major fictional and dramatic works by nineteenth and twentieth century Russian authors, including Pushkin, Gogol, Turgenev, Tolstoy, Dostoevsky, Gorky, Pasternak, Solzhenitsyn. An examination of the stylistic range and of the psychological, political and philosophical concerns of these writers.  
*Exclusion:* SLA 210, 310  
*Instructor:* (WES) TBA
- SLA 220     **Intermediate Russian, 3T, 1P**  
           (I)     Continued study of Russian with language laboratory practice, oral practice, composition and conversation based on reading of literary texts and topics of current interest.  
*Pre-requisite:* Slavic 100 or Grade XIII Russian  
*Instructors:* K. Lantz and N. N. Shneidman
- SLA 310     **Twentieth Century Russian Literature, 1L, 1T (In English)**  
           A survey of Russian literature of this century with emphasis on the Soviet period. A study of modernism; the impact of the 1917 Revolution on literature; the evolution of Soviet literary policy; contemporary problems of artistic freedom. Readings (in translation) will include works by Gorky, Bunin, Babel, Sholokhov, Pasternak, Solzhenitsyn, and others. Specialists will be required to do a certain amount of reading in the original.  
*Instructor:* K. Lantz
- SLA 312     **Tolstoy and Dostoevsky, 1L, 1T (In English)**  
           A comparative study of the writings and ideas of the two novelists.

Readings (in translation) will include, in addition to other works, *War and Peace* and *Anna Karenina* by L. Tolstoy and *Crime and Punishment*, *The Idiot*, and *The Brothers Karamazov* by F. Dostoevsky. Prospective students are advised to read at least two of these works in the summer preceding the course.

*Pre-requisite:* One literature course

*Instructor:* N. N. Shneidman

- SLA 316     **Literature and Politics in the Soviet Union, 1L, 1T (In English)**  
The origins and nature of political control of literature. The impact of literary theories and writers' organizations on literature. Ideology, aesthetics, and political reality in the Soviet Union. The writer and his reaction to Party policies. Readings (in translation) of representative works of literature and relevant ideological material.

*Instructor:* TBA

- SLA 320     **Advanced Russian, 3T, 1P**  
Continued study of grammar, composition, and translation. Oral practice and stylistic analysis of selected texts. Extensive reading programme.

*Pre-requisite:* SLA 220 or equivalent

*Instructor:* N. N. Shneidman

## SOCIOLOGY

Faculty Adviser: Professor W. E. Kalbach

One of the essential questions sociologists have had to confront concerns the extent to which the individual is determined by society and to what extent he is a determinant of society. In examining such questions, sociologists use the methods of science as well as those of the humanistic disciplines. The answers are not self-evident and traditional explanations often prove unreliable, both as a source of understanding and as a guide to action. In these circumstances, sociology provides another approach for assessing existing knowledge and developing more valid theories of social behaviour and the nature of society.

Students who intend to pursue careers in other fields, may gain from the study of sociology a clearer understanding of the human and social condition as it relates to their chosen profession and to contemporary institutions in general. There are opportunities in Canada and abroad for professional sociologists in teaching, research, administrative and consulting positions. A professional career in sociology, however, usually requires advanced training beyond the undergraduate level.

The Specialist programme in Sociology requires four full years and a minimum of seven courses in sociology, including the following: soc 201 or its equivalent (Check the St. George Campus Calendar, “suggested programmes of study” in Sociology for acceptable equivalents), one of soc 203, 313, or 401, and at least two 300- or 400-series soc courses. It is strongly recommended that soc 201 be taken during the Second Year. Students entering this programme should enrol with the Department of Sociology before the end of the first term in their second and subsequent years.

Students should seek advice from specialists within the Department while working out their programmes.

soc 101      **Introduction to Sociology, 2L, 1T**

An introduction to the basic concepts, principles, and methods of sociology as a discipline for the study of society.

*Instructor:* M. Spencer (and others TBA)

*Instructor:* (SDS) M. H. Cooper, (WES) M. H. Cooper

In all 200-series courses the student will be assumed to have the background knowledge provided by Sociology 101.

soc 201      **Methods of Social Research, 2L, 1P**

An introduction to sociological research procedures and elementary statistics. (This course should be taken in the second year)

*Instructor:* J. Kervin

*Instructor:* (SES) R. W. Burnside, (WES) TBA

soc 202      **Structure of Interpersonal Relations, 2L, 1T**

A study of patterned relationships, social roles and social expectations which arise out of interaction among individuals.

*Instructor:* TBA

soc 205      **Urban Sociology, 2L, 1P**

Examines the city both as a significant development in world civilization and a working mechanism guided by contemporary policies. Studies human behaviour in its multifaceted relations with the urban environment.

*Pre-requisite:* soc 101

*Instructor:* H. Breslauer

*Instructor:* (SDS) TBA

soc 212      **Sociology of Deviance, 2L, 1T**

A sociological analysis of deviant behaviour which examines theories



of its genesis, social definition, maintenance, control, and social consequences. Formerly soc 208E (1971-72 Calendar).

*Instructor:* P. Lorion

*Instructor:* (SES) TBA

**SOC 213E Social Stratification, 2L, 1T**

Examines the various systems by which, in all human societies, rewards (such as prestige, power, wealth, and others) are differentially distributed, and the principal theories which have attempted to account for these phenomena. Formerly soc 206E (1971-72 Calendar).

*Instructor:* J. Kervin

*Instructor:* (SDS) TBA, (WES) J. B. Kervin

**SOC 214E Sociology of the Family, 2L, 1T**

Development of the contemporary Western family with special emphasis on the changing relations among its members. Formerly soc 212E (1971-72 Calendar).

*Instructor:* TBA

Second-year students may be admitted to 300-level courses if space is available. Courses listed as being offered as part of the Third-year programme *may not be offered every year*. Students interested in specific courses and especially those for which instructors have not been assigned (TBA), are advised to check with the Faculty Advisor, or the supplementary calendar before final registration.

**SOC 303 Canadian Society, 2L, 1T**

An analysis of the changing structure of Canadian society.

*Instructor:* L. Felt

**SOC 304 Social Change, 3L**

An examination of technical, social, and ideological changes accompanying industrialization in both developed and underdeveloped countries. Formerly soc 322E (1971-72 Calendar).

*Instructor:* TBA

**SOC 305 Sociology of Religion, 2L, 1T**

Various theories of religious behaviour and organization are examined with special attention given to the role of religion in relation to social change and social integration. Current research and methods of study will also be stressed.

*Instructor:* J. Simpson



- SOC 309      **Mass Communications in Canadian Society, 2L, 1T**  
 The development and impact of the technology and institutions of mass media on the society and culture of Canada.  
*Pre-requisite:* One course in sociology  
*Instructor:* A. Powell
- SOC 310EF    **Race and Ethnic Relations, 3L**  
 Social processes involved in minority relations in terms of race and ethnicity and their social, economic, and political consequences.  
*Instructor:* TBA
- SOC 311      **Sociology of Education, 3L**  
 An analysis of the relationship between education and society in comparative perspective; the consequences of the internal structure of educational systems; and current controversies surrounding the function and structure of educational institutions.  
*Instructor:* M. Spencer  
*Instructor:* (WES) M. Spencer
- SOC 312      **Population: Explosions and Consequences, 2L, 1P**  
 An analysis of population change and consequences from both global and Canadian perspectives. Trends in mortality, fertility and migration are examined relative to their significance for growth, and their relation to social structure and social change.  
*Instructor:* W. E. Kalbach  
*Instructor:* (SES) W. E. Kalbach
- SOC 313      **Sociological Theory, 3L**  
 The development of sociology and contributions of particular sociologists whose concepts not only have historical interest but also illumine the subject matter and method of contemporary society.  
*Instructor:* P. Lorion
- SOC 321E      **Industrial Society, 3L**  
 An examination of the impact of industrialization on social roles and institutions with special emphasis on problems arising from increasing automation and affluence. Formerly soc 304s (1971-72 Calendar).  
*Instructor:* TBA
- SOC 324E      **Political Sociology, 2L, 1T**  
 The social basis of politics. Culture and social organization in their relation to power and its application.  
*Instructor:* TBA

**SOC 328ES Environmental Sociology, 3L**

An examination of the multi-faceted relationship between the physical environment, especially the man-made environment (e.g. buildings) and human behaviour. Principles underlying man's use of space and the potential significance of the environment as a variable in the study of human behaviour will be considered.

*Pre-requisites:* SOC 101, SOC 205E or P.I.

*Instructor:* H. Breslauer

**SOC 329ES Collective Behaviour, 3L**

An analysis of non-conventional social action as seen in crowd and mass behaviour (panics, riots, demonstrations, crazes, etc.) involving a study of relationships between forms of collective action and the more conventional social order, i.e., the relationship of collective behaviour to social action and control, stability and change.

*Instructor:* TBA

*Instructor:* (SES) TBA

**SOC 340E Concepts, Methods, and Values in Urban Studies, 1L, 3P**

(Same as GGR 340E)

A course designed for students concentrating in urban studies irrespective of major disciplinary area. It provides a survey of a variety of types of urban study from the social science perspective. The major emphasis is on linkages between the ways in which urban phenomena and processes are conceptualized, the methods employed to study them and the often implicit system of values in which such investigations are framed. Urban researchers, both academic and applied will be invited to discuss their research in the context of these issues.

*Pre-requisites:* Either SOC 205, or GGR 241 or P.I.; and, either SOC 201 or GGR 271 and GGR 202EF, or P.I.

*Co-requisites:* At least one other urban course, e.g., SOC 328ES, GGR 341EF, 345ES, 333ES, 379EF, 346ES etc., or P.I.

*Exclusion:* GGR 340E

*Instructors:* H. Breslauer, H. Andrews, G. Gad

**SOC 390EY Individual Studies I**

Students who wish to explore a subject in Sociology not offered in the regular programme, or to a greater depth than was possible in any course already completed, should submit a specific proposal to a professor not later than October 1st. Preference is given to students with at least B+ standing in Second Year, and such registration is

possible only when a faculty member is willing and available to supervise.

*Pre-requisite:* At least two sociology courses at the 200-level and P.I.

SOC 392EY **Individual Studies II**  
(See SOC 390EY)

Third-year students may be admitted to 400-level courses if space is available.

SOC 408E **Sociology of Poverty, 2L**

The study of poverty as a phenomenon in contemporary industrial societies with a particular emphasis on Canada. The meaning and measurement of poverty in historical and contemporary terms will provide a central focus; and a review of the available explanations for poverty will be presented, including "personal failure", subcultural traits, and the workings of the Western industrial social system. Present attempts at combating poverty, from government programmes to "citizen activism" will be examined to assess their impact on the incidence of poverty.

*Pre-requisite:* At least two sociology courses or P.I.

*Instructor:* L. Felt

SOC 422E **Workshop in Research Methods, 3P**

An advanced course involving selected research techniques for social enquiry emphasizing data collection and analysis.

*Pre-requisites:* SOC 201, and at least two sociology courses beyond the introductory level, or P.I.

*Instructor:* A. Bennett

SOC 426E **Sociology as Strategy for Social Change, 2L**

The utilization of the sociological imagination in achieving desired social change by active participation in groups committed to social change.

*Pre-requisites:* At least two courses in sociology beyond the introductory level. (Not open to students who have taken SOC 326E 1972-3 Calendar)

*Instructor:* TBA

SOC 427E **Comparative Elites, 2L** (offered Wednesday 7:00-9:00 p.m.)

An examination of the contributions of social theorists to elite theory and the comparative analysis of case studies for the purpose of assessing the relevance of alternative elite theories for contemporary Canadian society. Students will be responsible for a research project

using documentary materials for analyzing the claims of various elitist perspectives.

*Pre-requisites:* At least three courses in sociology including soc 101, and soc 213E or P.I. (Not open to students who have taken "Comparative Elites" as a third-year course.)

*Instructor:* A. Bennett

SOC 491EY **Independent Research I**

Open only when a faculty member is willing and available to supervise, with preference to students with at least B+ standing in Third Year.

SOC 492EY **Independent Research II**

(See SOC 491EY)

## SPANISH

Faculty Adviser: Professor M. Scarth

Spanish studies has a twofold goal: the first, to learn to speak, understand, read and write with ease a language shared by over two hundred million people; the second, to become familiar with the civilization and intellectual life of the Hispanic world through study of the artistic and literary phenomena of that world.

The specialist programme is designed to allow the student who is interested in entering Graduate Studies in Spanish or to enter Type A courses in the College of Education. The student may, of course, choose a combined specialization programme of Spanish and any other discipline.

The study of Spanish can also be a preparation for such careers as those in the foreign service, journalism, publishing and commercial and cultural relations between Canada and Spanish-speaking countries.

Latin America, with millions of Spanish speakers, should be of vital interest and concern to North Americans. It is inevitable that Canada's ties and contacts with this area will increase. Thus opportunities for persons well versed in the Hispanic field should also increase.

The language laboratory is used to promote fluency and after the first year, all courses, both literary and linguistic, are conducted in Spanish as much as possible in order to give the student maximum exposure to the language.

In the 300 and 400 series, courses will only be offered if there is sufficient enrolment. Courses so deleted, and others, may be taken on the St. George Campus with the permission of the Discipline Representative. *Early consultation with the staff is, therefore, essential if the student is to be assured of a programme suitable for his needs and interests.*



- SPA 100E **Beginning Spanish, 3L, 2P**  
 For those who have had no previous background in Spanish. By the end of the year, students should have acquired sufficient skill in the written and spoken language to be able to specialize in Spanish if they wish. Emphasis will be placed on oral practice both in class and in the language laboratory.  
*Instructor:* Staff  
*Instructor:* (SDS) J. Webster, (WES) TBA
- SPA 191E **Spanish Civilization and Culture (in English), 2L**  
 Presents an overall view of the activities of the Spanish people from the early settlers of the peninsula to the current scene. Using the history of the country as a basic frame, the course will deal with the main currents of thought and the major accomplishments in literature, art, architecture and music. Slides, music and other illustrative material will be used.  
*Instructor:* M. Scarth
- SPA 192E **Latin American Civilization and Culture (in English), 2L**  
 From the pre-Columbian civilization (Aztec, Maya and Inca) to the present; significant manifestations in literature, art, music, architecture. Discussion of social, economic and political problems of Latin America. Illustrative material.  
*Instructor:* E. Neglia  
*Instructor:* (WES) E. Neglia
- SPA 220E **Intermediate Grammar and Composition, 2T, 1P**  
 (I) Conducted mainly in Spanish and designed for those who have completed a basic course in the language. Reinforces and refines students' knowledge of Spanish to allow a greater range of expression and a broader understanding of the language.  
*Pre-requisite:* SPA 100E or equivalent/Gr. XIII and P.I.  
*Instructor:* TBA
- SPA 222EY **Conversational Spanish, 1T**  
 (I) Stresses idiomatic speech. Classes will include general conversation, short talks, reports on subjects of topical interest, discussion of short stories.  
*Pre-requisite:* SPA 100E/Gr. XIII SPA or equivalent and P.I.  
*Instructor:* E. Neglia
- SPA 246EF **Introduction to Modern Spanish Drama, 2T**  
 (I) An introduction to the modern Spanish stage as portrayed by several



leading playwrights in a variety of dramatic productions. In Spanish as much as possible.

*Pre-requisite:* SPA 100E/Gr. XIII SPA or equivalent

*Instructor:* M. Scarth

SPA 257ES **Readings from Modern Spanish Prose, 2T**

(I) Several modern short stories and essays will be studied not only for their literary value but for the insight they provide into social and intellectual problems. In Spanish as much as possible.

*Pre-requisite:* SPA 100E/Gr. XIII SPA or equivalent

*Instructor:* M. Scarth

SPA 320E **Creative Spanish, 2T**

Conducted mainly in Spanish and designed to meet the needs of those who already have a good basic knowledge of the language. Emphasis on improvement of style, translation, essay writing and oral practice.

*Pre-requisite:* SPA 220E or equivalent and P.I.

*Instructor:* TBA

SPA 325ES **History of the Spanish Language, 2T**

The course will begin with an introduction to phonetics, phonology and basic concepts of linguistics. It will then proceed to the study of the evolution of Spanish from its vulgar Latin origins up to the present day, in its phonetic, morphologic, syntactic and lexical aspects. An attempt will be made to relate linguistic development to historical and cultural aspects. Some general knowledge of Latin is desirable. Interest in theoretical linguistics and a working knowledge of Spanish will be assumed. Course is given in Spanish.

*Pre-requisite:* SPA 220E or equivalent

*Instructor:* O. Hegyi

SPA 343EF **Golden Age Drama, 2T (Not offered in 1973-74)**

The evolution of drama through the study of individual dramatists will be pursued from Lope de Vega to Calderón. The course will be given in Spanish.

*Pre-requisite:* SPA 220E or equivalent and one other course of the 200 or 300-series, and P.I.

*Instructor:* O. Hegyi

SPA 346ES **Modern Spanish Drama, 2T (Not offered in 1973-74)**

The course will cover the period from the Romantic Drama of the

eighteen-thirties up to the present day. The course will be given in Spanish.

*Pre-requisite:* SPA 220E or equivalent

*Instructor:* E. Neglia

**SPA 353EF Don Quijote and the Novel of the Golden Age, 2T**

Special consideration will be given to the picaresque novel, with the later part of the course dedicated to Cervantes. The course will involve extensive readings of original texts and it will be given in Spanish.

A good working knowledge of Spanish is assumed.

*Pre-requisite:* SPA 220E or equivalent and one other course of the 200 or 300-series

*Instructor:* TBA

**SPA 356ES Modern Spanish Novel, 2T**

The course will cover the period from the beginnings of the realistic novel in the nineteenth century up to the present day. Students will be expected to do a certain amount of reading of original texts as a preparation for their classes and a good working knowledge of Spanish is assumed as the course will be given in Spanish.

*Pre-requisite:* SPA 220E or equivalent and P.I.

*Instructor:* O. Hegyi

**SPA 366ES Modern Spanish American Poetry, 2L (Not offered in 1973-74)**

A study of some major poets and the different currents in Spanish American poetry; Pablo Neruda, César Vallejo for special study.

*Pre-requisite:* One or more SPA 200-series courses or equivalent

*Instructor:* E. Neglia

**SPA 376EF Modern Spanish American Drama, 2L**

The development of realism in Spanish American drama; the rural theatre; the themes of justice and freedom in the modern plays.

*Pre-requisite:* One or more SPA 200-series courses or equivalent

*Instructor:* E. Neglia

**SPA 382ES Modern Spanish American Novel, 2L**

A study of the representative novels of Spanish America, including the regional and the Indianist novel as well as that of the Mexican revolution.

*Pre-requisite:* One or more SPA 200-series courses or equivalent

*Instructor:* E. Neglia

- SPA 385EF **Spanish American Story and Essay**, 2L (Not offered in 1973–74)  
Representative works of outstanding Spanish American essayists and short story writers including Sarmiento, Rodó, Quiroga, Borges, etc. will be studied.  
*Pre-requisite:* One or more SPA 200-series courses or equivalent  
*Instructor:* E. Neglia
- SPA 393E **Spanish History from 1815 to the Present** (in English), 2T (Same as HIS 393E) (Not offered in 1973–74)  
Conducted in English, this course is designed for Spanish and History students. An investigation will be made into how nineteenth century Spain prepared the ground for the Civil War (1936–1939) and Franco's Regime.  
*Pre-requisite:* P.I.  
*Instructor:* J. Webster
- SPA 394E **Spanish History from 1469–1815** (in English), 2T (Same as HIS 394E) (Not offered in 1973–74)  
Conducted in English, for History and Spanish students. Beginning with the reign of Ferdinand and Isabella (the Catholic Monarchs), the course is planned to give some idea of Spain's Golden Age and period of decline.  
*Pre-requisite:* P.I.  
*Instructor:* J. Webster
- SPA 395EF **Spanish Civil War** (in English), 2T (Same as HIS 395EF)  
The origins and after-effects of the Spanish Civil War (1936–39).  
*Pre-requisite:* P.I.  
*Instructor:* J. Webster
- SPA 420EF **Advanced Composition and Stylistics** (offered Wednesday 7:00–9:00 p.m.)  
Designed for those who already have a good knowledge of the language. Emphasis on ability to write good Spanish style and on the improvement of the facility through translation, essays, letters, etc.  
*Pre-requisite:* SPA 320EY or equivalent and P.I.  
*Instructor:* J. R. Webster

### SURVEY SCIENCE

Faculty Adviser: G. Gracie

Survey science is used to measure and represent the geometric and physical features of our environment. Accordingly, survey science is of fundamental importance in a variety of activities, which may include mapping the earth's surface

and charting its waters, establishing land boundaries and delineating property, searching for and inventorying natural resources, studying the figure of the earth, and locating transportation facilities and other engineered structures. Recent activity includes topographic mapping of the moon's surface using metric photography acquired by Apollo spacecraft.

Survey science relates to many other disciplines, particularly those which deal with the earth and its environment. Moreover, increased sophistication in measuring and data processing procedures has brought survey science into close alignment with the basic disciplines of mathematics, statistics, computer science and physics.

Students intending to become professional surveyors will satisfy the academic requirements of the Association of Ontario Land Surveyors by completing a four-year programme of study which includes MAT 135, STA 232, CSC 108F or CSC 148F, PHY 110E or PHY 135E, EPS 100E, GGR 241E, GGR 373E, SUR 100E, SUR 210E, SUR 220E, SUR 230E, SUR 240ES, SUR 310E, and the additional listed Survey Science courses.

**SUR 100E     Introduction to Surveying, 2L, 3P**

Introduction to the procedures used to acquire field data, process survey information, and present results in various forms, with consideration given to geodetic, cartographic, hydrographic, cadastral and engineering applications.

*Pre-requisite:* Grade XIII MATH A or MATHS 1 & 2

*Instructor:* G. Gracie

**SUR 210E     Geodesy, 2L, 2P**

The figure of the earth and the precise determination of position and height on or near the earth's surface. Fundamentals of geometrical geodesy, geodetic astronomy, physical geodesy, satellite geodesy and map projections.

*Pre-requisites:* MAT 135, PHY 110E/135E

*Instructor:* R. C. Gunn

*Instructor:* (WES) R. C. Gunn

**SUR 220E     Photogrammetry, 2L, 3P**

The metric camera, interior and exterior orientation of the metric photograph, the projective model, space resection and intersection, relative and absolute orientation. Photogrammetric instrumentation, including stereoplotters, comparators, rectifiers and orthophoto equipment. Application of photogrammetry to map compilation and other areas.

*Pre-requisites:* MAT 135 and PHY 110E/135E

*Instructor:* G. Gracie

**SUR 230E Land Surveying, 2L, 3P**

Principles and procedures for precise measurement of direction, distance, position, height and depth, including electromagnetic distance measurement and positioning. Introduction to development of a survey system, including technical, economic and legal considerations.

*Pre-requisites:* MAT 135, PHY 110E/135E and SUR 100E

*Instructor:* TBA

**SUR 240ES Measurement Theory and Adjustment of Observations, 2L, 2P**

The statistical theory of measurement, including the concepts of measurement and error, measures of precision and accuracy, error propagation, weighting of observations, error ellipses and ellipsoids, and the statistical properties of 2 and 3-dimensional errors. The method of least squares, with application to several problems.

*Pre-requisite:* CSC 108F/148F/P.I.

*Co-requisite:* STA 232

*Instructor:* TBA

**SUR 310E Survey Law, 3L**

Principles of evidence, land survey systems, real property law, transfer of land ownership, land boundaries and descriptions; the Surveys Act and other legislation.

*Pre-requisite:* P.I.

*Instructor:* TBA

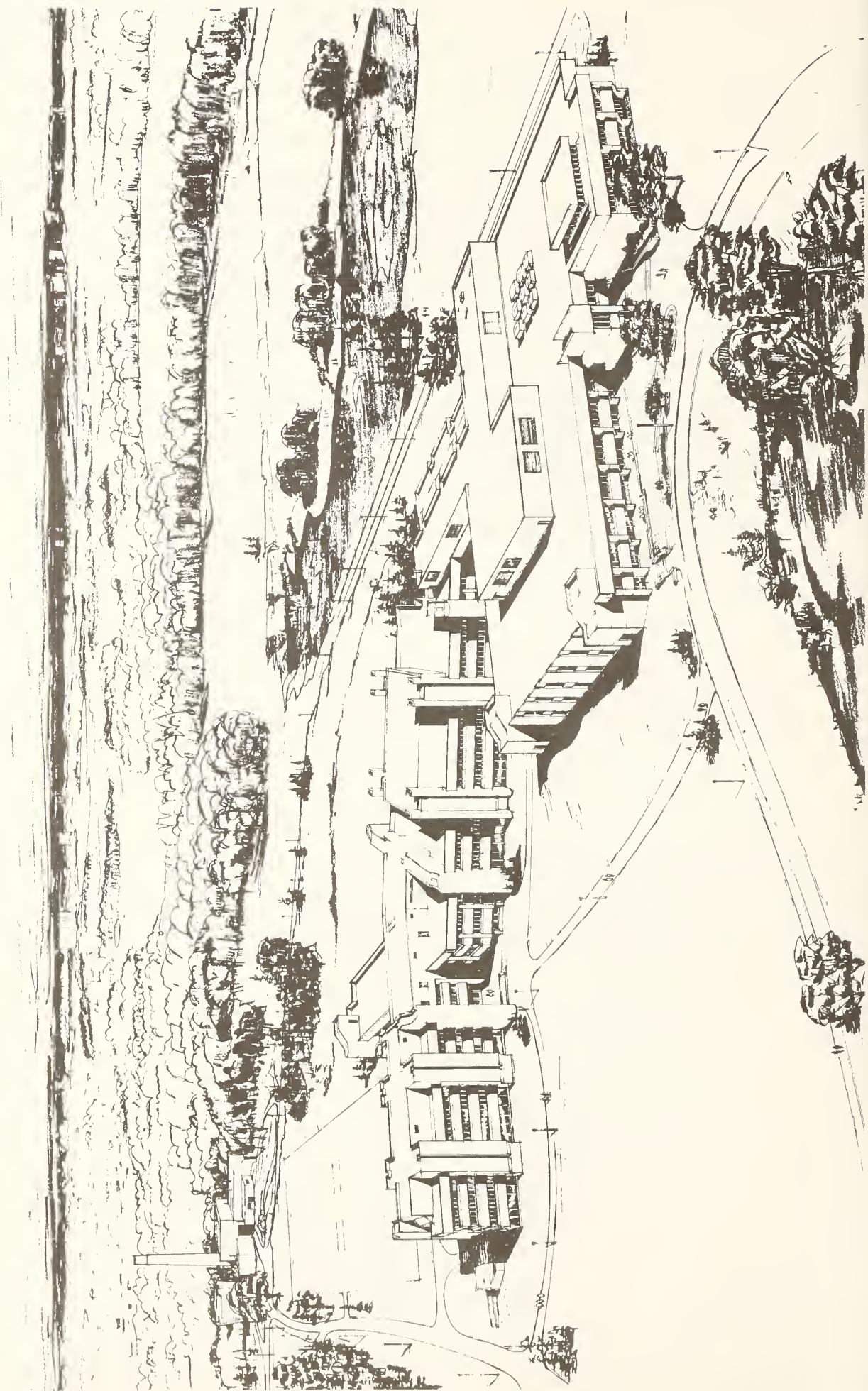
*Instructor:* (WES) TBA

In 1974–75, the course offerings in Survey Science will be expanded to include third and fourth year courses in:

Data Management and Representation, Professional Practice, Survey Control, and Survey Design and Synthesis.







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## NOTES



## NOTES

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## NOTES

*Erindale Campus*

# **ERINDALE CAMPUS**

**Faculty of Arts and Science**

**University of Toronto**



**Supplement to Calendar  
1973 - 74**





THE INFORMATION IN THIS SUPPLEMENT TO THE CALENDAR SUPERSEDES THE INFORMATION IN THE ERINDALE COLLEGE CALENDAR, 1973-74, AND THE STUDENT IS URGED TO NOTE CAREFULLY ANY CHANGES THAT HAVE BEEN MADE. DELETIONS, ADDITIONS AND CHANGES IN TIMETABLE SINCE THE CALENDAR WAS PUBLISHED ARE INCORPORATED IN THIS REVISION.

(BUS SCHEDULE APPEARS ON FINAL PAGE)

ACADEMIC DATES AND DEADLINES1973

August 13-17	Supplemental Examinations
September 4-11	Registration
September 12	Classes begin. Late registration fee imposed.
October 5	Last day for changes in first term and full courses.
November 15	Last day to complete: - confirmation of programme - withdrawal from an extra first term (F) course without academic penalty.
December 11	First Term classes end.
December 12-21	Examination period for F courses and term tests.

1974

January 2	Second term fees due.
January 7	Second term classes begin.
January 15	Late fees fine applied.
February 1	No second term course may be begun after this date.
February 15	Last day to withdraw from an extra course, a second term course (S) or (Y) half course or from the University without academic penalty or for a Transfer to Extension.
February 18-22	Reading week. No classes.
April 11	Classes end.
April 22-May 10	Annual Examinations.

### GENERAL INFORMATION

Students should read carefully the Requirements for Standing as shown on pages 42-46 of the Erindale College Calendar, 1973-74.

Your attention is directed to the following requirements as stated in the Calendar. FIVE full courses are required for full-time students. It is the student's duty to ensure that all pre-requisites, co-requisites, and exclusions are complied with. Any two half-courses can be combined to form a full course. An extra half or full course may be taken, but no credit will be given for it unless it is being used to remove a condition. A student can not obtain credit twice for the same course even if the course has a different number.

Counselling: Counselling for students is available at all times from the course instructor, faculty advisors, the Registrars, the Deans, or the Principal.

Writing Laboratory: Students may consult a Writing Lab tutor for assistance with their writing of academic essays, book reports, seminar presentations, and so on. For further information call Professor Van Fossen at 828-5262.

Specialization: If you intend to specialize in a particular subject(s), consult the Faculty Advisor in that subject and have him examine your course selection. If you intend to qualify for a Type A Specialist Secondary School Teacher's Certificate, consult with the Registrar of the College of Education as to the current requirements.

Medical Service: A complete medical service is available at the Health Service, Room 1123.

Living Accommodation: Enquiries regarding living accommodations & residence should be addressed to Mr. M. Lavelle, Room 3134, Main Building.

Financial Assistance: Enquiries with regard to Student Loans, scholarships, and bursaries should be addressed to Mrs. L. Webber, Room 219A.

Extension: Counselling for Extension students is available. Please direct your enquiries to Mrs. M. Cooper, Room 213. Part-time students in the Division of Extension may take up to three courses during the winter session, and these courses may be taken in the evening or with the regular day classes.

#### IV.

In the academic year 1973-74 Erindale College is introducing an innovation to improve its registration and counselling services by having a Registrar's Office in each of two locations on campus. These will be located in the Preliminary Building and in the Main Building. This will be the first step in an evolving system whereby moderate-sized groups of students can receive the best possible help and advice and the opportunity to interact on a human scale with groups of professors and academic administrators. We shall also be providing strong links between the registrar's offices, the deans' office and a group of academic disciplines at each location.

Initially each student will be assigned to a centre that best serves his or her academic interests, as indicated by the courses selected for pre-registration. Later there will be the opportunity to change one's affiliation if so desired. In 1973-74 students and faculty will be asked to indicate what other facilities would be desired at each location (study rooms, club rooms, facilities for refreshment, etc.,). They will also be encouraged to make suggestions about developments in the academic programme prompted by student interest and imminent changes in course structure suggested by the recommendations of the Berlyne Committee, that has just completed a study of the Faculty of Arts and Science in the University of Toronto.

We hope to provide at least two centres in the Main Building in 1974-75, in addition to the centre in the Preliminary Building. Even this year, two associate dean's offices will be located in different parts of the Main Building and some activities will be organized from these locations.

V.

Beginning in September, the subjects taught at Erindale and the professors who teach them will be located as follows:

<u>Preliminary Building</u>			<u>Main Building</u>		
Centre A*			Centres B and C		
	Classics		Astronomy	Geography	
	English		Biology	Sociology	
	French		Chemistry	Survey Science	
	Fine Art		Geology	Psychology	
	German		Mathematics	Political Science	
	History		Physics	Communications	
	Italian				
	Music				
	Philosophy				
	Religious Studies				
	Slavic Studies				
	Anthropology				
	Commerce				
	Economics				
		<u>Room</u>			<u>Room</u>
<u>Registrars</u>	Dr. L. J. Elmer	213		Dr. J. J. Rae	2122
	Mrs. M. Cooper	213		Professor M. Scarth	2122 & 102A
<u>Associate</u>	Dr. W. J. Huggett	229	<u>Centre B</u>	Dr. H. W. Taylor	2037
<u>Deans</u>			<u>Centre C</u>	Dr. I. M. Spigel	3134

Each student will be informed of the centre to which he has been allocated for initial registration in September.

My own, and the Principal's Office are located in the Main Building and students are invited to consult either of us if there are matters with which we can be of help.

E. A. Robinson  
Dean

- \* also LIN, INI and LTR courses
- + Principal - Room 3137
- Dean - Room 3094



1973-74 FACULTY LIST

## ANTHROPOLOGY

Professor F. J. Melbye  
\*Professor A. Mohr  
Professor L. W. Reinhardt  
Dr. L. L. Sample  
Professor B. A. Sigmon  
Professor R. Vanderburgh

## ASTRONOMY

Professor J. R. Percy  
\*Professor R. Racine

## BIOLOGY

## Botany

\*Professor P. W. Ball  
Professor W. G. Fillion  
Professor R. A. Frost  
Professor P. A. Horgen  
Professor P. W. Maycock  
Professor P. V. Rangnekar  
Mr. J. Svoboda  
Professor G. R. Thaler

## Microbiology

\*Professor A. Guha  
Professor J. Silver

## Zoology

Professor N. C. Collins  
Professor D. L. Gibo  
Dr. E. Grace  
Professor G. K. Morris  
Professor D. H. O'Day  
Professor P. J. Pointing  
\*Professor B. I. Roots  
Professor W. G. Sprules  
Mr. R. Stephens

## CHEMISTRY

Professor J. M. Deckers  
Professor M. Moskovits  
Professor G. A. Ozin  
\*Professor A. J. Poë  
Mrs. J. C. Poë  
Professor J. J. Rae  
Professor E. A. Robinson  
Professor I. W. J. Still  
Professor M. A. Winnik

## CLASSICS

Professor R. L. Beck  
\*Professor T. G. Elliott  
Professor C. I. Reid

COMMERCE	Professor M. Berkowitz Professor W. E. Grasham Professor H. McCandless *Professor M. Sommers
COMPUTER SCIENCE	*Professor C. R. Crawford Mr. J. Metzger
DRAMA	Mr. J. Astington
ECONOMICS	Professor A. Donner Professor W. T. Easterbrook Professor S. M. Eddie Professor J. Floyd Professor M. A. Fuss *Professor M. J. Hare Professor J. A. Hynes Professor A. M. Kruger Mr. H. M. Lorie <del>Professor G. E. McGuigan</del> Professor J. Pesando Professor S. A. Rea
ENGLISH	Professor T. H. Adamowski Mr. J. Astington Professor B. Corman Professor V. A. De Luca Professor J. Dutka Mr. D. Godfrey Professor D. B. Hill Mr. U. Kareda Professor D. I. Lancashire Mr. M. Levene Mr. R. R. McLeod Professor R. Rower Professor J. Skvorecky *Professor R. W. Van Fossen
FINE ART	Dr. L. Eleen
FRENCH	Mrs. K. Bourlier Mrs. G. Chesneau Professor C. Cloutier-Wojciechowska Mrs. M. Ducretet Mrs. J. LeGall Mrs. M. Raine Mr. J. C. Rault Professor A. Stein Professor D. A. Trott *Professor H. H. Weinberg
GEOGRAPHY	Professor H. F. Andrews Mr. J. G. Cogley

## GEOGRAPHY (cont'd)

Mr. P. Duckworth  
 Mr. G. H. K. Gad  
 Professor G. Gracie  
 \*Professor W. Harrison  
 Mr. C. J. Houston  
 Mr. T. F. McIlwraith  
 Professor J. C. Munday  
 Professor D. F. Putnam

GEOLOGY  
 (Earth & Planetary  
 Sciences)

Mr. B. Bornhold  
 Professor D. J. Dunlop  
 Professor D. H. Gorman  
 \*Professor H. C. Halls  
 Mr. M. M. Kimberley  
 Mr. G. N. Pearce  
 Mr. P. Y. Robin  
 Professor J. B. Waterhouse  
 Professor J. T. Wilson

## GERMAN

Mr. W. Bauer  
 \*Professor W. Meyer-Erlach  
 Mr. K. O. Steinmetz

## HISTORY

Mr. M. Dafoe  
 \*Professor A. C. Gluek  
 Mr. R. E. Johnson  
 Professor C. La Vigna  
 Professor D. P. Morton  
 Professor D. L. Raby  
 Professor W. B. White

## ITALIAN

Mrs. P. Marchese  
 \*Mr. L. McCormick  
 Miss A. Testaferri

## MATHEMATICS

Professor D. F. Andrews  
 Professor T. Bloom  
 Professor P. H. H. Fantham  
 Professor J. Fu  
 Professor V. Jurdjevic  
 Professor W. Lakin  
 Professor J. LeBel  
 Professor M. Mather  
 Professor L. Rosen  
 Professor F. D. Tall  
 \*Professor S. M. Trott

## MUSIC

\*Professor G. G. Jones

## PHILOSOPHY

Professor J. V. Canfield  
 Professor C. E. Cassin  
 Professor C. H. Chastain  
 Professor W. F. Ehrcke

## PHILOSOPHY

\*Professor W. J. Huggett  
 Professor A. Rosenthal  
 Professor A. I. F. Urquhart

## PHYSICS

\*Professor R. F. Code  
 Professor S. J. Dunlop  
 Mr. R. G. Johnson  
 Professor P. P. M. Meincke  
 Professor T. C. Padmore  
 Professor G. Stegeman  
 \*Professor H. W. Taylor  
 Professor S. H. Vosko  
 Professor J. T. Wilson  
 Professor S. S. M. Wong

POLITICAL  
SCIENCE

Professor J. Barros  
 Professor S. J. Colman  
 \*Professor R. B. Day  
 Professor P. W. Fox  
 Professor R. Gregor  
 Professor F. J. C. Griffiths  
 Professor F. W. Peers  
 Professor D. V. Smiley  
 Professor J. E. Smith  
 Professor P. H. Solomon  
 Mr. John C. Terry

## PSYCHOLOGY

Professor T. M. Alloway  
 Professor K. Blankstein  
 Professor C. M. Corter  
 \*Professor F. I. M. Craik  
 Professor L. Krames  
 Professor M. Moscovitch  
 Professor P. Pliner  
 Professor R. M. Rosenbaum  
 Professor I. M. Spigel  
 Professor S. E. Trehub

RELIGIOUS  
STUDIES

\*Professor L. J. Elmer  
 Mr. M. Lavelle  
 Mr. S. A. Nigosian  
 Mr. L. Schmidt

SLAVIC LANGUAGES  
& LITERATURE

Mr. K. Lantz  
 \*Professor N. N. Shneidman

## SOCIOLOGY

Professor A. M. Bennett  
 Professor H. J. Breslauer  
 Professor L. Felt  
 Mr. J. L. Heap

## SOCIOLOGY

\*Professor W. Kalbach  
Professor J. B. Kervin  
Professor P. Lorion  
Mr. A. T. R. Powell  
Professor M. Spencer

## SPANISH

Professor O. Hegyi  
Professor E. G. Neglia  
\*Professor M. Scarth  
Professor J. Webster

## SURVEY SCIENCE

\*Professor G. Gracie  
Professor R. C. Gunn



ERRATA IN THE CALENDAR

Page 33                      five lines from bottom, should  
read SLA 110E

Page 81                      near bottom, PHY 120E should  
read PHY 135E

Page 114                    GGR 481EF--add the phrase "may  
not be combined with GGR 491E"

                              GGR 491E--add the phrase in  
the parenthesis "or GGR 481EF"  
and delete co-requisite GGR  
481EF

CHANGES IN COURSE NUMBERS

CHM 322F	has been changed to	CHM 322S
CMM 220ES	has been changed to	CMM 220EF
CSC 248S	has been changed to	CSC 248F
CSC 258F	has been changed to	CSC 258S
ECO 352E	has been changed to	ECO 352ES
SOC 310EF	has been changed to	SOC 310ES
SOC 329ES	has been changed to	SOC 329EF
SOC 491EY	has been changed to	SOC 490EY

ADDITIONS TO THE 1973-74 ERINDALE COLLEGE CALENDAR

The following new courses have been added since the Calendar was published in March.

COM 420      Accounting Literature and Research, 2L

This course will take the form of a seminar for the critical discussion of research bulletins and monographs of the leading accounting bodies in Canada, the United States, and Britain; of articles in current issues of accounting journals; and of classic articles in books of readings. Its purpose is to provide a review of contemporary and controversial issues in accounting theory.

ECO 322E      Now being offered. See calendar for description.

GGR 272EF      Applied Geomorphology: Industrial Minerals in Southern Ontario, 2L, 2P

The distribution, characteristics, and exploitation of limestone, sandstone, clay, shale, and sand and gravel deposits in the Toronto-Hamilton region. Field study of local pits and quarries, both active and abandoned. Consideration of land-use and reclamation problems associated with such operations.

GGR 273ES      Pleistocene Geomorphology of Southern Ontario, 2L, 2P

Genesis of glacial and post-glacial landforms in the Golden Horseshoe region and their relationships to historical and modern land-use patterns. Hazard zoning of slope and shoreline materials will be treated.

GGR 371E      Arctic America - Environment and Resources, 2L, 2T

A study of the physical milieu into which man is expanding in the Canadian Arctic and neighbouring areas; discussion of selected implications of development and exploitation.

HIS 220      The Shape of Mediaeval Society, 2L, 1T

A topical survey of economic, political, religious and educational ideas and institutions of the Middle Ages. The narrative of political events is kept to a minimum, serving only to provide the necessary context for institutions and ideas. From the late Roman period to the 15th century.

MAT 234     Advanced Calculus for Social Scientists, 2L, 1T

Introduction to sequences and series, power series, Taylor's series in one and many variables. Extremal problems in many variables with and without constraints, Lagrange multipliers, reduction of quadratic forms. Introduction to difference and differential equations, emphasizing linear equations with constant coefficients.

MAT 235     Now being offered. See calendar for description.

MAT 239E     Calculus and Linear Algebra II, 2L, 1T

A continuation of MAT 135E. Orthogonality. Mean value theorem, Taylor's approximation. Implicit and inverse function theorems. Multilinear algebra, determinants. Integration of vector functions, change of variable formula. Applications to extrema and probability. Pre-requisite: MAT 135E with C or better.

SOC 314     Power and Organization, 2L, 1T

An introduction to the sociology of bureaucracy and administrative organization, with an emphasis on the social contexts of policy-formation, decision-making, and participation in a wide range of organizations. Pre-requisite: Introductory course in Sociology, Political Science or Economics.

ABBREVIATIONS

ANT	Anthropology	HIS	History
APM	Applied Mathematics (See Mathematics)	INI	Interdisciplinary Studies (Innis)
AST	Astronomy	ITA	Italian
BIO	Biology (Botany, Zoology & Microbiology)	LAT	Latin (See Classics)
CHM	Chemistry	LIN	Linguistics
CMM	Communications	LTR	Literature in Translation
COM	Commerce	MAT	Mathematics
CSC	Computer Science (See Mathematics)	MUS	Music
DRA	Drama	PHL	Philosophy
ECO	Economics	PHY	Physics
ENG	English	POL	Political Science
EPS	Earth & Planetary Sciences (Geology & Geophysics)	PSY	Psychology
FAR	Fine Art	REL	Religious Studies
FRE	French	SLA	Slavic Languages & Literatures (Russian)
GER	German	SOC	Sociology
GGR	Geography	SPA	Spanish
GLL	Greek & Latin Literature (See Classics)	STA	Statistics (See Mathematics)
GRH	Greek & Roman History (See Classics)	SUR	Survey Science
GRK	Greek (See Classics)		

MTWRF	Five days of the week
E	Course given only at Erindale
F	Half course given in the First (Fall) Term only
S	Half course given in the Second (Spring) Term only
Y	Half course which must be taken throughout both terms
P.I.	Permission of Instructor
TBA	To be announced
/	Means "or"
&(,)	Means "and"
(I)	May be taken by first year students
Z	Courses offered after 6:00 p.m.

1.

# COURSE TIMETABLE

Please consult your Calendar for pre-requisites, co-requisites and exclusions.

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
ANT 100E	Introduction to Anthropology	Sample	R 2-4	287
ANT 100E	"	(Z)Hall	R 7-9	
ANT 201ES(1)	Peoples of the Far East	Sample	TR 9	269
ANT 204E(1)	Social & Political Organization	(Z)Weissleder	M 7-9	
✓ ANT 207EF(1)	Folklore	Sample	W 2-4	269
ANT 209E(1)	Religion in Culture	Vanderburgh	MW 1	269
ANT 210E(1)	The Anthropology of Art	Reinhardt	T 10-12	269
✓ ANT 211EF(1)	African Culture History	Reinhardt	T 1-3	269
ANT 212ES(1)	Trad. & Contemporary African Cultures	Reinhardt	T 1-3	269
✓ ANT 220EF(1)	Archaeological Field Methods	Melbye		
ANT 221ES(1)	Archaeological Lab Analysis	Melbye	TR 1	270
ANT 225E(1)	North American Archaeology	(Z)Hurley/TBA	T 7-9	
ANT 230E(1)	Physical Anthropology	Melbye	TR 11	270
ANT 231EY(1)	Lab Methods in Physical Anthropology	Melbye		
ANT 232E	Human Origins	Sigmon	M 11 R 9-11	250
ANT 241E(1)	Indians of North America	Mohr	TR 10	270
✓ ANT 320EF	Advanced Archaeological Field Methods	Melbye		
ANT 321ES	Advanced Archaeological Analysis	Melbye		
ANT 322E(1)	Archaeological Field Methods	Sample Mohr		
ANT 324E	Archaeological Interpretation	Mohr	T 2-4	239B
ANT 334E	Skeletal Bio. of Prehistoric Peoples	(Z)Melbye	R 7-9	
ANT 338E	Primate Biology	Sigmon	M 1-4	250
ANT 397EY	Independent Study	Staff		



## COURSE TIMETABLE

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
ANT 398E	Independent Reading	Staff		
ANT 399E	Independent Research	Staff		
ANT 422E	Spec. Project in Arch. Field Research	Sample Mohr		
ANT 490E	Seminar in Anth. Theory & Method	Staff		
ANT 499E	Advanced Individual Research	Staff		
APM 251E	Applied Mathematics I	Jurdjevic	TR 2	2080
APM 351E	Applied Mathematics II	Lakin	TWF 12	
AST 100	Introduction to Astronomy	Racine	MR 4	2072
✓ AST 310EF	Solar System Astrophysics	Percy	F 11-1	1094
AST 320ES	Stellar & Galactic Astrophysics	Percy	F 11-1	1094
BIO 100E	The Study of Life	Thaler & Staff	a) TR 9 b) TR 11	2072 2072
			Lab.M/T/W/R/F 2-5	
BIO 110E	Field Biology	Gibo Ball	T 11-1 Lab.F 1-4	2080
BIO 130E	Man & the Environment	Frost Grace	TR 9 Lab.R 1-4	1104
BIO 230E	Ecology	Grace & TBA	TR 10 Lab.T 2-5	1135
BIO 240E	Genetics	Gibo Filion	MW 1 Lab.M/W2-5	2080
BIO 241E	Cell Biology	Silver, O'Day & Horgen	MW 11 Lab.M/T/W2-5	2080
BIO 250E	Plant Form & Function	Ball Filion	MW 12 Lab.R 2-5	1104
BIO 251E	Animal Form & Function	Morris Pointing	MW 10 Lab.M/W2-5	1104
BIO 252E	Developmental Biology	Horgen O'Day	TR 10 Lab.T 2-5	1143
BIO 260E	Biometrics	Sprules	MW 9 Lab.W 2-5	1143

## COURSE TIMETABLE

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
BIO 270EF	Intro. Phy. Chem. for Life Sciences	Moskovits Roots	F 9-11 Lab.M 2-5	2080
BIO 320E	Plant Physiology	Rangnekar	TR 11 Lab.T 2-5	1143
BIO 321E	Intro. to Animal Physiology	Roots	W 10, F 11 Lab.F 2-5	1143
BIO 322EF	Animal Behaviour I: Social	Morris	TR 12 Lab.T 2-5	1074
BIO 323ES	Animal Behaviour II: Physical	Pointing	TR 12 Lab.T 2-5	1074
BIO 330E	Plant Ecology	Maycock Frost	MW 9 Lab.R 2-5	1104
BIO 332E	Freshwater Biology	Collins	M 1 Lab.M 2-5	1143
BIO 350E	Tax. & Evol. of Flowering Plants	Ball	F 11-1	1104
BIO 351ES	Invertebrate Form & Function	Morris	TR 12 Lab.R 2-5	1094
BIO 370E	General Microbiology	Guha	TR 12 Lab.W/R2-5	1104
BIO 371ES	Virology	TBA	M 2, R 9 Lab.F 2-5	1130
BIO 422ES	Acoustical Biology	Morris	MW 11	1079
BIO 423ES	Radioisotopes in Biology	Rangnekar	TR 9 Lab.R 2-5	1079
BIO 431E	Theoretical Ecology	Sprules Collins	TR 1	2111
BIO 432E	Applied Ecology	Frost	F 9-2	2111
BIO 435EF	Biogeography	(Z)Thaler	T 7-10	
BIO 440EF	Population Genetics	Gibo	MW 11	1079
BIO 441EF	Electron Microscopy	Roots	R 1 Lab.R 2-5	1104
BIO 444EF	Cytogenetics	Filion	MW 1	3124
BIO 452EF	Current Topics in Animal Development	O'Day	TBA	
BIO 470E	Molecular Biology	Guha, Silver Horgen	W 9-11	1079
BIO 480EY	Biology Research Project I	Staff		
BIO 481EY	Biology Research Project II	Staff		

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
CHM 120E	Basic Concepts of Chemistry	a) Poe & Robinson	MW 11(&F11 first term)	2072
CHM 120E	"	b) Poe & Robinson	MW 12(&F12 first term)	2072
CHM 220E	Introduction to Physical Chem.	Deckers	MWF 9	2082
CHM 230ES	Introduction to Inorganic Chem.	Ozin & Poe	MW 10	2082
CHM 240E	Introduction to Organic Chem.	Still	TR 11	2082
CHM 270EF	Intro. Phy. Chem. for Life Sciences	Chm. & Bio. Staff	F 9-11 Lab. M 2-5	2080
CHM 320E	Physical Chemistry	Deckers	MW 11	2082
CHM 322S	Quantum Chem. & Spectroscopy	Moskovits	MW 9	1135
CHM 330E	Advanced Inorganic Chem.	Ozin & Poe	TR 11	1094
CHM 340E	Advanced Organic Chem.	Winnik & Still	TR 10	1094
CHM 350E	Instrumental Methods in Chem.	TBA	F 10	1104
CHM 360E	Biological Chemistry	(Z)Winnik & Poe	W 6-8 & (F9/F11a.m.)	3124
CHM 371EY	Lab Course in Biochemistry	TBA		
CHM 410	Topics in Chemistry	Staff	MW 9-11	3124
CHM 415	Dissertation Based on Lit. Research	Staff		
CHM 419	Intro. to Research in Chem.	Staff		
CMM 220EF(1)	Communications I	Meincke	M 3-5	2074
CMM 330E	Deviance, Stigma, & Communication	Stein	T 4-6	265
COM 100	Financial Accounting	a) Doran	MWF 9	239
COM 100	"	b) Smith	MWF 9	245
COM 100	"	c) Berkowitz	TR 9 & 1hr.	239
COM 100	"	(Z)Doncaster	M 7-9	
COM 221F	Management Accounting	TBA	F 9-11	241
COM 221F	"	(Z)Cook	M 7-9	
COM 222S	Information Systems & Control	TBA	F 9-11	241



COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
COM 222S	Information Systems & Control	(Z)Cook	M 7-9	
COM 300	Legal Environment of Business	Rauenbusch	T 9-11	111
COM 320	Financial Accounting Theory & Policy	Brooks	M 9-11	104
COM 323	Intro. to Public Admin.	Grasham	W 10-12	111
COM 332E	Organizational Behaviour	McCandless	M 2-5	104
COM 400	Marketing	Sommers	T 11-1	271
COM 420	Accounting Literature & Research	TBA	T 1-3	105
COM 421	Corporation Finance	Berkowitz	M 1 W 2	285 240
COM 423	Canadian Business Taxation	McQuillan	R 1-3	285
✓CSC 108F	Computer Programming	Metzger	MW 1	2082
✓CSC 108F	"	(Z)TBA	T 7-9	
CSC 118S	Programming Applications	Metzger	MW 1	2082
CSC 118S	"	(Z)TBA	T 7-9	
✓CSC 148F	Introduction to Computing	Crawford	MW 1	2074
CSC 158S	Computer Applications	Crawford	MW 1	2074
✓CSC 248F	Programming Languages	Metzger	MW 11	1143
CSC 258S	Computer Organization	Crawford	MW 11	1143
CSC 361S	Numerical Analysis	Crawford	MW 2	3125
✓CSC 378F	Information Structures	Metzger	MW 9	2112
DRA 200E	Drama through Acting	Astington	MW 2-4	PhysEd Shed
ECO 100	Introduction to Economics	a) Donner	MWF 10	287
ECO 100	"	b) Pesando	MWF 11	287
ECO 100	"	c) Eddie	T11,4 R11	292
ECO 100	"	(Z)Hare	W 7:30-9:30	

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
ECO 200	Micro-Economic Theory	a)Hynes	TR 11	287
ECO 200	"	b)Lorie	TR 10	245
ECO 201E	Modern European Economic History	Eddie	R 1-3	241
ECO 202E	Macro-Economic Theory	Pesando	MF 1	241
ECO 202E	"	(Z)TBA	T 7-9	
ECO 221E	North Amer. Eco. History & Dev.	Easterbrook	W 1-3	241
ECO 230ES	Quantitative Methods in Eco.	Rea	T 3-5	285
ECO 260ES	Eco. of Environmental Deterioration	Hare	M 3-5	245
ECO 322E	History of Economic Thought	Lorie	TR 2	265
ECO 325S	Advanced Eco. Theory--Macro	Donner	W 1-3	285
✓ ECO 326F	Advanced Eco. Theory--Micro	Fuss	TR 12	285
ECO 328	International Eco. & Policy	Hynes	T 3-5	3124
ECO 336E	Canadian Public Finance	Donner	F 1-3	285
✓ ECO 351EF	Monetary Economics	Lorie	M 11-1	111
ECO 352ES	Industrial Organization	Fuss	TR 12	285
ECO 360E	Eco. Trans. & Tech. Change	Hare	W 3-5	285
✓ ECO 361EF	Labour Eco. & Labour Relations	Kruger	M 3-5	285
ECO 362ES	Eco. of the Labour Market	Kruger	F 10-12	285
✓ ECO 368EF	Economics of Poverty	Rea	F 10-12	285
ECO 400E	Reading Course for Specialist	Faculty		
ENG 108	Forms of 20th Century Lit.	a)Rower	MWF 9	110
ENG 108	"	b)Levene	MWF 10	110
ENG 108	"	c)Corman	MWF 11	110
ENG 108	"	d)Astington	MWF 12	110
ENG 108	"	e)Bennett	MWF 1	110
ENG 108	"	f)Godfrey	MWF 2	110



COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
ENG 108	Forms of 20th Century Lit.	(Z)Rower	R 7-9	
ENG 112	Major British Writers	Loeb	MWF 11	105
ENG 120	Varieties of Fiction	McLeod	MWF 9	105
ENG 130	Varieties of Drama	Kareda	MWF 10	105
ENG 150	American Literature	Adamowski	MWF 1	105
ENG 152	Canadian Lit. in English	a)Van Fossen	MWF 11	240
ENG 152	"	b)Levene	MWF 1	240
ENG 152	"	(Z)Levene	M 7-9	
ENG 165	Eng. Lit. Forms & Approaches	Dutka	MWF 1	232
ENG 204	Medieval Literature to 1500	Dutka	MWF 10	232
ENG 206	Eng. Lit. More to Milton	Van Fossen	MWF 9	232
ENG 207	19th Century Eng. Lit.	Adamowski	MWF 12	105
ENG 212	Shakespeare	a)Kareda	MWF 9	269
ENG 212	"	b)Rower	MWF 10	269
ENG 212	"	c)McLeod	MWF 2	269
ENG 218	Major American Authors	Skvorecky	MWF 1	270
ENG 256	Canadian Fiction	Levene	MWF 12	269
ENG 306	Eng. Poetry Prose & Drama 1660-1800	Corman	MWF 2	270
ENG 306	"	(Z)Corman	W 7-9	
ENG 308	Romantic Poetry & Prose	De Luca	MWF 10	270
ENG 312	Chaucer	Dutka	MWF 3	105
ENG 322	Fiction before 1832	Corman	MWF 1	104
ENG 324	Fiction 1832-1900	Adamowski	MWF 2	105
ENG 328	Modern Novel	Skvorecky	MWF 11	104
ENG 338	Modern Drama	Kareda	F 5-7	240
ENG 348	Modern Poetry	Rower	MWF 3	270
ENG 351	Topics in American Lit.	(Z)Adamowski	T 7-9	

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
ENG 390	Individual Studies	Staff		
ENG 466	Comprehensive Examinations	Staff		
ENG 467	Sem. in Lit. Theory & Practice	McLeod	MWF 12	270
ENG 469	Senior Essay	Staff		
ENG 480E	Shakespeare's Stage	Astington	MWF 10	266
EPS 100E	Introduction to Earth Science	Robin Pearce & Wilson	T 9 & Labs R/F p.m.	1143
EPS 210E	Elementary Min. & Pet.	Gorman	W 1-5	1135
EPS 220E	Evolution & Geochronology	Farquhar & TBA	MW 11	2111
EPS 230E	Structural Geology	Robin	R 10	1096
EPS 240ES	Earth Processes & Man's Environment	Halls	R 9	2111
EPS 250E	Earth History	Robin	M 10	2111
✓ EPS 310EF	Geophysical Methods	Halls	R 12 Lab. T 2-5	2111
EPS 320ES	Marine Geology	Bornhold	W 9	2111
✓ EPS 330EF	Economic Geology	Kimberley	W 12	3124
EPS 340ES	Mineral Exploration	Halls	R 12 Lab. T 2-5	2111 1135
✓ EPS 350EF	Principles of Paleontology	TBA	R 12	3124
EPS 360ES	Paleoenvironments	Kimberley	R 2-4	3124
EPS 410E	Advanced Physics of the Earth	Dunlop	TBA	
EPS 420E	Evol. of the Earth's Crust	TBA	W 3-5	3124
EPS 430E	Frontiers of Earth Science	Staff	T 10	3125
EPS 440E	B. Sc. Thesis	Staff		
FAR 101	Ancient Art	Elliott	W11, F10-12	245
FAR 102	Medieval Art	Eleen	F1-3 +1hr.	101
FAR 200	European Art from 1400 to 1750	(Z)Eleen	W 7-9	
FAR 201	European Art from 1750 to 1940	TBA	MF 9	240

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
FRE 111	Intensive French	Le Gall	MWF 1 & Lab. MW 2	265
FRE 120	Intro. to Univ. French Studies	a) Rault	MWF 9	207
FRE 120	"	b) Le Gall	MWF 10	207
FRE 120	"	c) Weinberg	MWF 11	207
FRE 120	"	d) TBA	MWF 12	207
FRE 120	"	e) Chesneau	MWF 1	207
FRE 120	"	(Z) TBA	R 7-9:30	
FRE 140	Studies in Modern French Lit.	Joliat	TR 2	207
FRE 142	Man & Society in French Fiction	Cloutier-Wojciechowska	TR 3	207
FRE 271	Language Practice	a) Chesneau	MWF 10	271
FRE 271	"	b) Le Gall	MWF 11	232
FRE 271	"	c) Rault	MWF 1	271
FRE 320	Literature of Classicism	Joliat	TF 10	295
FRE 322	Literature of the Enlightenment	Stein	TR 1	207
FRE 332	Lit. of Fr. Can. from 1960 to present	Cloutier-Wojciechowska	T 4-6	207
FRE 354	French Drama from 1800-1950	Rault	TR 12	207
FRE 364	Prose Fiction from 1800-1900	Weinberg	MW 2	207
FRE 371	Language Practice	a) Chesneau	MWF 11	270
FRE 371	"	b) Ducretet	MWF 3	207
FRE 372	Structure of Modern French	Ducretet	W 5-7	
FRE 374	Intro. to the Stylistics of Fr.	Weinberg	WF 1	295
FRE 390/391/ 392F/392S/392Y	Independent Study	Staff		
FRE 471	Adv. Written & Oral Expression	Ducretet	M 12-2	266
GER 100	Elementary German	Steinmetz	TR 10	297
GER 100	"	(Z)TBA	M 7-9	



COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
GER 108E	Basic German A	TBA	MW 12	297
GER 110	Language Practice I	Meyer-Erlach	MW 10	297
GER 130	Intro. to Univ. German	Bauer	MW 9	297
GER 130	"	(Z)TBA	M 7-9	297
GER 201	Ger. Lit. in Eng. Translation	Bauer	T2, R11	297
GER 205	Basic German B	TBA	TR 9	297
GER 210	Language Practice II	Steinmetz	MW 11	297
GER 220	Enlightenment & "Storm & Stress"	Meyer-Erlach	W 3-5	297
GER 231E	Literature & Language Practice	(Z)TBA	W 7-9	
GER 320	"Geist Der Goethezeit"	Meyer-Erlach	TR 11	295
GER 410E	Language Practice IV	Steinmetz	F 3-5	295
GGR 171E	Man-Environment Interactions	McIlwraith Harrison	TR 9	2082
✓ GGR 202EF	Statistics	Andrews Houston	MW 9	2074
GGR 213E(1)	Climatology	Duckworth	MW 10&Lab. M11-1/1-3/3-5	1143 3069
GGR 213E(1)	"	(Z)Duckworth	R 7-9	
GGR 231E	Intro. to Spatial Analysis	Andrews	TR 12 & Lab.T 3-5	1158
GGR 241E(1)	Urban Canada	Gad	TR 11	2080
GGR 253E	Cultural Geography	TBA	TR 10	2111
GGR 255ES	Perspectives on Current Pop. Issues	Houston	TR 1	1158
GGR 271E	Methods of Environ. Analysis	Munday & Staff	MW 11 & Lab T9-11/11-1/1-3/3-5	1143
✓ GGR 272EF	Applied Geomorphology	Cogley	MW 3 & Lab R 1-3/3-5	1143 3069
GGR 273ES	Pleistocene Geomorphology	Cogley	MW 3 & Lab R 1-3/3-5	1143 3069
✓ GGR 301EF	Field Studies	Staff	Lab.F 2-5	3069
GGR 311E	Conservation Strategies	Munday	MW 1 & Lab M 3-5	1157
GGR 333ES	Transportation Geography	McIlwraith	TR 12	1148

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
GGR 340E	Concepts, Methods, Values in Urban Stud	Andrews, Gad Breslauer	R 1 & Lab W 2-5	1148
GGR 346ES	Urban Planning Process	Gad	T 1	1096
GGR 351E	Hist. Geog. of Northeastern N.A.	McIlwraith	TR 2	1158
GGR 351E	"	(Z)McIlwraith	W 7-9	
GGR 363E	Geography of the Soviet Union	Houston	TR 3	3126
GGR 363E	"	(Z)Houston	R 7-9	
GGR 371E	Arctic Amer. - Envir. Resources	Cogley	MW 11	1148
GGR 373E	Remote Sensing of Environment	Munday	W 10 & Lab M 9-11	1157 3069
GGR 375E	Land-Use Hydrology	Duckworth	MW 12 & Lab. W 1-3	1157 3069
✓ GGR 377EF	Computer Anal. of Envir. Data	Harrison	MW 2 & Lab. T 3-5	3125 1096
✓ GGR 379EF	Man-Environment Strategies	Andrews	T 2 & Lab. W 9-1	1148 1096
GGR 381ES	Research Design	Andrews Harrison	Lab. T 9-11 or F 12-2	1104 1094
GGR 471E	Environmental Case Studies	Harrison & Staff	F 11	3055
✓ GGR 481EF	Advanced Reading Seminar	Staff		
GGR 491E	B.A./B.Sc. Thesis	Andrews & Staff		
GLL 190	Greek & Roman Rel. & Mythology	Reid	MW 9 & M10	225
GLL 200(1)	Greek Drama in Translation	Beck	TR 9	104
GRH 100	Greek & Roman Civilization	(Z)Elliott	W 7-9	
GRH 101E	Classical Ideal & Classical Exp.	Elliott	MWF 12	232
GRH 216(1)	Alexander & the Hellenistic Age	Reid	R 10-12	232
GRH 218(1)	Religion in the Roman Empire	Beck	2 Tut. TBA	
GRH 218(1)	"	(Z)Beck	M 7-9	
GRH 300	The Roman Empire	Elliott	MW 9, M 10	234
GRK 100	Introductory Greek	Reid	MF 1, W1-3	



COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
✓ GRK 120F	Socrates on Trial	TBA	3 Tut. TBA	
GRK 123S	Wanderings of Odysseus	TBA	3 Tut. TBA	
HIS 100E	Europe & the World, 1789-1969	Dafoe	TR 10	265
HIS 101E	Emergence of the Third World	Johnson Raby	TR 12	287
HIS 200E(1)	United States, 1607-1973	White	MW 11	241
HIS 203E	Latin America - Survey	(Z)Raby	W 7-9	
HIS 204E(1)	Italy - Survey	La Vigna	MW 10	104
HIS 205E(1)	Canada 1663-1967	Gluek	TR 10	287
HIS 205E(1)	"	(Z)Morton	T 7-9	
HIS 206E	Russia - Survey	Johnson	TR 2	270
HIS 220	The Shape of Mediaeval Society	Zacour	W 10-1	285
HIS 301E	Can. Parties & Pol. Since 1867	Morton	R 11-1	240
HIS 303E	International Relations 1870-1960	a)Dafoe	M 4-6	265
HIS 303E	"	b)Dafoe	R 5-7	
HIS 304E	Soc. Rev. in Latin America	Raby	W 3-5	271
HIS 305E	Soc. Hist. of Eur. in Rec. Times	La Vigna	R 11-1	271
HIS 306E	19th Century Britain	Dafoe	T 1-3	271
HIS 306E	"	(Z)Dafoe	W 7-9	
HIS 308E	Can. Hist.: Can.-Amer. Rel.	Gluek	R 1-3	271
HIS 310E	The Russian Revolution	Johnson	M 1-3	295
HIS 312E	The Renaissance	La Vigna	MW 2	271
HIS 313	Can. Labour & the Left	Morton	R 5-7	
HIS 315E	Mexico: Independ. to Rev. 1810-1960	Raby	T 3-5	295
HIS 370E	American Social History	White	MW 9	295
✓ HIS 395EF	The Spanish Civil War	Webster	T 4	285
HIS 401E	Independent Reading	Staff		

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
HIS 403E	Independent Reading	Staff		
HIS 485	Prob. of Gov. in Class. Greece	Reid	T 3-5	270
INI 202	Can. Culture & Society	Staff & (Z)Davidson	T 6	
ITA 100(A)	Req. Italian for Dialect Speakers	Marchese	TR 11, R12	225
ITA 100(B)	Req. Italian for Non-Dialect Speakers	Testaferri	MTR 2	240
ITA 201E(A)	Cont. Ital. - Dialect Speakers	Marchese	TR 10	110
ITA 201E(B)	Continuing Italian	McCormick	M11, TR3	157A
ITA 201E	"	(Z)McCormick	R 7-9	
ITA 202E	Mod. Ital. Short Stories & Plays	Testaferri	R 9-11	105
ITA 321E	Ital. Epic in the 16th Century	McCormick	R 1-3	105
ITA 324EF	Leopardi	McCormick	M 3-5	110
ITA 340EY	Creative Italian I	Marchese	M 10	295
ITA 371EF	Intro. to Modern Poetry	Marchese	TW 4	266
ITA 390ES	Verga e la tristezza faticosa del vivere	McCormick	F 2-4	232
ITA 399ES	Pirandello: Life vs. Form	Marchese	TW 4	266
LAT 100	Introductory Latin	TBA	MWF 11	
LAT 120F	Poetry of Catullus	Beck	MWF 11	
LAT 121S	Poetry of Horace	Beck	MWF 11	
LIN 200	Intro. to Gen. Linguistics	Smith	MW 10	157A
LIN 201S	Language Learning	TBA	MW 3	265
MAT 110EF	Introductory Calculus	TBA	TR 12	2072
MAT 120ES	Finite Mathematics	TBA	TR 12	2072

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
MAT 134	Calculus for Social Scientists	Trott	TR10	2082
MAT 134	"	(Z) Trott	M7-9	
MAT 135	Calculus for Scientists	Trott	TR10	2080/ 2072
MAT 135	"	(Z) Trott	M7-9	
MAT 139E	Calculus & Linear Algebra I	LeBel	TR10	1076
MAT 140E	Abstract Mathematics	Trott	TR11	240
✓ MAT 204EF(I)	Modern Symbolic Logic	Urquhart	TR1	239
MAT 209ES(I)	Set Theory	TBA	TR1	1143
MAT 234	Adv. Cal. for Soc. Scientists	Fantham	MW12	2080
MAT 235	Adv. Cal. for Scientists	Fantham	MW12	2080
MAT 239E	Calculus & Linear Algebra II	Bloom	TR10	1074
MAT 240E	Algebra	Jurdjevic	TR11	1079
✓ MAT 244F	Differential Equations	Fantham	MW12	2080
✓ MAT 320EF	Topics in Mathematics I	Tall	TR1	1143
MAT 325ES	Topics in Mathematics II	Andrews	TR1	1157
MAT 335E	Vector Calculus	Rosen	TR10	3055
✓ MAT 340EF	Adv. Abstract Mathematics I	TBA	TBA	
MAT 345ES	Adv. Abstract Mathematics II	TBA	TBA	
MAT 399Y	Independent Work in Mathematics	Staff		
✓ PHL 350F	Intermediate Logic	Urquhart	WF10	271
	* see also PHL 351S			
MUS 100	Study of Music Literature	Jones	T11-1,3-5	music shed
PHL 100E	Introduction to Philosophy	a) Staff	TRF12	265
PHL 100E	"	b) Huggett	MWF10	239
PHL 100E	"	c) Staff	MWF11	101
PHL 100E	"	(Z) TBA	W7-9	



COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
PHL 200S	Reason & Morality	Rosenthal	MW1	239
✓ PHL 201F	Ethical Theories	Ehrcke	TR1	295
✓ PHL 202F	Aesthetics	Rosenthal	TR11.	285
PHL 204S	Literature & Philosophy	Cassin	WF12	245
✓ PHL 205F	Contemporary Social Issues	Ehrcke	MW1	239
✓ PHL 210F	The State & the Citizen	Ehrcke	MW3	241
PHL 213S	The Univ. & Canadian Society	TBA	TR1	295
✓ PHL 216F	Deviance & Abnormality	Rosenthal	MW12	241
PHL 220S	Belief, Knowledge & Truth	Rosenthal	F12-2	241
✓ PHL 230F	Existentialism & Phenomenology	Cassin	R3-5	285
✓ PHL 240F(I)	Birth of Philosophy I to Plato	Huggett	TR10	241
✓ PHL 240F(I)	"	(Z)Huggett	W7-9	
PHL 241S(I)	Birth of Phil. II Aristotle & After	Huggett	TR10	241
PHL 241S(I)	"	(Z)Huggett	W7-9	
✓ PHL 243F	Age of Reason: 17th Cent. Thought	Chastain	R2-4	295
PHL 244S	Age of Enlightenment: 18th Cent. Thought	Chastain	R2-4	295
✓ PHL 250F(I)	Modern Symbolic Logic	Urquhart	TR1	239
PHL 261S	Philosophy of Religion	Ehrcke	MW11	265
✓ PHL 270F	Miracles, Mysticism & Occult	Chastain	MW11	265
✓ PHL 280F	Persons, Minds & Bodies	Rosenthal	F2-4	271
PHL 281S	Philosophical Psychology	Cassin	F2-4	271
PHL 282S	Language & Communication	Urquhart	TR3	269
PHL 283S	Analysis of Propaganda	Ehrcke	TR4	269
PHL 300S	Contemporary Ethical Theory	Ehrcke	TR1	239
PHL 312S	Philosophy of Law	TBA	MW3	241
PHL 314S	Philosophy of Social Science	Urquhart	MW12	241
PHL 315S	Philosophy of History	Chastain	TR11	285
PHL 330S	Prob. of Existentialism & Phenomen.	Cassin	R3-5	285

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
✓ PHL 344F	Kant	Urquhart	T 9-11	285
✓ PHL 347EF	19th Century Philosophy	Cassin	T 2-4	266
PHL 348ES	20th Century Philosophy	Chastain	TR 2	110
✓ PHL 350F	Intermediate Logic	Urquhart	WF 10	271
PHL 351S	Philosophy of Logic & Math.	Rosenthal	WF 10	271
PHL 353S(1)	Set Theory	Tall	TR 1	1148
✓ PHL 396F	Tutorial in Epistemology	Chastain	W 3-5	232
PHL 396S	"	Urquhart	TBA	
PHY 110E	The World of Physics	Wong	MW 9	2072
PHY 135E	Physical Mechanics	Dunlop	MW 11	1104
PHY 211E	Electronics	Code	TF 1	1079
PHY 230E	Electromagnetism & Mod. Physics	TBA	MW 9	1074
PHY 251ES	Wave Motion & Physical Optics	TBA	T11, F10	1148
✓ PHY 252EF	Thermal Physics	Dunlop	T11, W2	1148
PHY 325E	Advanced Physics Lab.	Staff	T 2-5 F 1-4	1079 3055
PHY 330E	Quantum Physics	Vosko	MF 10	1096
PHY 352E	Electromagnetic Theory	TBA	M2, W9	1094
PHY 355E	Topics in Classical Theoretical Phys.	TBA	M9, W2	1096
PHY 450E	Quantum Mechanics	TBA	MW 3	3055
✓ PHY 451EF	Statistical Mechanics	TBA	TF 11	3126
✓ PHY 453EF	Nuclear Physics	TBA	T9, F10	3126
PHY 455ES	Solid State Physics	TBA	TF 11	3126
PHY 456ES	Quantum Optics	TBA	MF 10	1074
PHY110&135	Labs held M/T/W/F afternoons			
POL 100	Intro. to Canadian Politics	Fox	TR 9	2074



COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
POL 101	Intro. to Pol. Science	Smiley	TR 1	1074
POL 104	Foreign Political Institutions	Smith	TR 3	1074
POL 200	History of Political Thought	Colman	TR 9	1094
POL 201	Political Behaviour	Terry	M1-3, W1	1096
POL 202	State & Economic Life	Smiley & Day	T 2-4	2111
POL 204	Soviet Gov. & Politics	Day	R 10-12	1157
POL 204	"	(Z)Day	M 7-9	
POL 208	International Relations	Gregor	T 11-1	2111
POL 208	"	(Z)Gregor	T 7-9	
POL 212E	Political Mass Movements	Barros	T10-12	3124
POL 320	Modern Political Thought	Heinrichs & Cook	R 1-3	1094
POL 323	Topics in Canadian Politics	Peers	W 2-4	1094
POL 327	Comparative Foreign Policy	Gregor	W 11-1	1094
POL 328	International Organization	Barros	T 1-3	1094
POL 340	Undergraduate Thesis	Staff		
POL 422	Dynamics of Soviet Politics	Griffiths & Solomon	M 10-12	
PSY 100	Introductory Psychology	Krames a)Alloway	MW 12	2074
PSY 100	"	Craik b)Corter	TR 1	2074
PSY 100	"	Spigel c)Trehub	TR 10	2074
PSY 100	"	Craik (Z)Alloway	T 7-9	
PSY 200F	Statistics & Research Design I	TBA	MW 9	2074
PSY 201S	Statistics & Research Design II	Drillings	R12-2, T10	292
✓ PSY 203EF	Intro. to Social Psychology	a)Pliner	MWF 1	2080
✓ PSY 203EF	"	b)Rosenbaum	MWF 2	2080
✓ PSY 203EF	"	Pliner (Z)Rosenbaum	M 7-9	
PSY 204ES	Personality	a)Pliner	MWF 1	2080

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
PSY 204ES	Personality	b)Rosenbaum	MWF 2	2080
✓ PSY 206EF	Psychology of Lang. & Thinking	Trehub	MW 11	239
✓ PSY 208EF	Sensory & Perceptual Processes	Drillings	MWF 10	2080
✓ PSY 208EF	"	Z)Drillings	R 7-9	
PSY 209ES	Physiological Psychology	Krames	MWF 10	2080
✓ PSY 213EF	Comparative Psychology	Krames	MW 10	1076
✓ PSY 213EF	"	Z)Krames	W 7-9	
PSY 216ES	Experimental Design & Theory	Alloway	TR 11	1076
PSY 216ES	"	Z)Spigel	T 7-9	
✓ PSY 218EF	Classical & Instrumental Conditioning	Alloway	MW 2	2082
✓ PSY 218EF	"	Z)Alloway	T 7-9	
✓ PSY 310EF	Individual Project	Staff		
PSY 311ES	"	Staff		
PSY 326ES	Abnormal Psychology	Blankstein	MWF 10	1076
PSY 326ES	"	Z)Blankstein	M 7-9	
✓ PSY 350EF	Human Memory & Learning	Jacoby	MTR 3	1094
PSY 351ES	Lab in Human Memory & Learning	Craik	M 2-5	1076
PSY 351ES	"	Z)Craik	T 7-9	
PSY 353ES	Lab in Sensory & Percep. Processes	Drillings	T 1-5	1076
PSY 356ES	Lab in Social Psychology	Rosenbaum	R 2-5	1076
PSY 362ES	Animal Behaviour & Ethology	Z)Krames	W 7-9	
PSY 365ES	Soc. Psy.: Interpersonal Behaviour	Pliner	W 3-5	1074
✓ PSY 368EF	Dev. Psychology: Childhood	Cortier	MWF 11	1074
✓ PSY 368EF	"	Z)Cortier	T 7-9	
✓ PSY 370EF	Motivation	Spigel	MW 10	1074
✓ PSY 370EF	"	Z)Spigel	T 7-9	
✓ PSY 372EF	Psychophysiology	Blankstein	W 2-5	2112

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
PSY 374ES	Lab in Psychophysiology	Blankstein	W 2-5	2112
PSY 378ES	Dev. Psy.:Cognitive Development	Trehub	TR 11	1135
PSY 380ES	Dev. Psy.:Early Soc. Behaviour	Cortier	M 2-5	1074
PSY 400E	Thesis Research			
PSY 405E	Current Issues in Psychology	Staff	T 2-5	3125
✓ PSY 412EF	Individual Project	Staff		
PSY 413ES	"	Staff		
REL 100	World Religions	Z)Niqosian	T 7-9	
REL 175E	The Wisdom & the Folly	Schmidt	MWF 1	225
REL 203	Religion & Imaginative Lit.	a)Lavelle	MW 11	
REL 203	"	b)Lavelle	TR 11	
REL 251E(1)	Evolution & Evil	Elmer	R 2-4	111
REL 251E(1)	"	Z)Elmer	M 7-9	
REL 266E	Bible & its Literary Antecedents	Niqosian	T11-1, R1	269
REL 360	Mystery, Magic & Religion	Z)Niqosian	R 7-9	
REL 375E	Communication & Rel. Consciousness	Schmidt	MWF 10	157B
SLA 100	First Year Russian	Lantz	M 12-2 W10,1,F10	234
SLA 110E	Intro. to Slavic Culture & L.t.	Shneidman	T 1, F 9	266
SLA 110E	"	Z)TBA	W 7-9	
SLA 210(1)	19th Century Russian Literature	Lantz	T3, W3-5	225
SLA 211(1)	Masterworks of Russ. Lit. in Trans.	Z)TBA	T 7-9	
SLA 220(1)	Intermediate Russian	Lantz Shneidman	M 1-3 T10,F11	157B
SLA 310	20th Century Russian Literature	Lantz	T 1-3	232
SLA 312	Tolstoy & Dostoevsky	Shneidman	M 3-5	225
SLA 316	Lit. & Pol. in the Soviet Union	TBA	T11 & 1 hr.	266



COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
SLA 320	Advanced Russian	Shneidman	MW 11-1	157B
SOC 101	Introduction to Sociology	a) Spencer	TR 11	287
SOC 101	"	b) Spencer	TR 1	2082
SOC 101	"	c) Bell	MW 2	1104
SOC 101	"	d) Heap	TR 3	2082
SOC 101	"	Z) Cooper	M 7-9	
SOC 201	Methods of Social Research	Kervin	MWF 11	1130
SOC 201	"	Z) TBA	T 7-9	
SOC 202	Structure of Interpersonal Rel.	Kervin	MWF 9	1157
SOC 205	Urban Sociology	Breslauer	R 2-4 & Tut. T1	1143 3055
SOC 212	Sociology of Deviance	Lorion	MWF 1	1074
SOC 213E	Social Stratification	Z) Kervin	M 7-9	
SOC 214E	Sociology of the Family	Rosen	TR 11	1130
SOC 303	Canadian Society	Felt	MWF 1	1076
SOC 305	Sociology of Religion	Simpson	W 4-6	1096
SOC 310ES	Race & Ethnic Relations	Spencer	TR 3	1094
SOC 311	Sociology of Education	Z) Spencer	R 7-9	
SOC 312	Population: Explosions & Consequences	Kalbach	MTB 10	1130
SOC 313	Sociological Theory	Lorion Felt	MWF 3	1079
SOC 314	Power & Organization	Simpson	TR 9	1076
SOC 324E	Political Sociology	Heap	W 10-12	3125
SOC 328ES	Environmental Sociology	Breslauer	T 2-5	1148
✓ SOC 329EF	Collective Behaviour	Bell	TR 3	1157
SOC 340E	Concepts Methods & Values in Urban Stud	Breslauer, Gad, Andrews	W2-5, R1	1157
SOC 390EY	Individual Studies I			
SOC 392EY	Individual Studies II			

COURSE CODE	TITLE	INSTRUCTOR	TIME	ROOM
SOC 422E	Workshop in Research Methods	Bennett Kalbach	M 4-6	1079
SOC 427E	Comparative Elites	Z)Bennett	W 7-9	
SOC 490EY	Independent Research			
SOC 492EY	Independent Research			
SPA 100E	Beginning Spanish	a)Staff	MWF 10	240
SPA 100E	"	b)Staff	MWF 12	240
SPA 100E	"	c)Staff	MWF 12	225
SPA 100E	"	Z)TBA	T 7-9	
SPA 191E	Span. Civilization & Culture	Scarath	TR 12	110
SPA 192E	Latin Amer. Civilization & Culture	Neglia	W 2-4	266
SPA 192E	"	Z)Neglia	R 7-9	
SPA 220E(1)	Intermediate Grammar & Composition	TBA	TR 12	232
SPA 220E(1)	"	Z)TBA	T 7:30-9:30	
SPA 222EY(1)	Conversational Spanish	Neglia	F 10	104
✓ SPA 246EF(1)	Intro. to Modern Spanish Drama	Scarath	TR 1	104
SPA 257ES(1)	Readings from Mod. Spanish Prose	Scarath	TR 1	104
SPA 320E	Creative Spanish	TBA	TF 11	225
SPA 325ES	History of the Spanish Lang.	Hegyi	TR 11	157A
✓ SPA 353EF	Don Quijote & the Novel of the Golden Age	TBA	M 1-3	266
SPA 356ES	Modern Spanish Novel	Hegyi	M 2-4	269
✓ SPA 376EF	Modern Spanish Amer. Drama	Neglia	MW 12	157A
SPA 382ES	Modern Spanish Amer. Novel	Neglia	MW 12	157A
✓ SPA 395EF	Spanish Civil War	Webster	T 4-6	104
✓ SPA 420EF	Adv. Comp. & Stylistics	Z)Webster	W 7-9	
✓ STA 202EF(1)	Statistics	Andrews	MW 9	2074



[illegible]

**ERINDALE COLLEGE - BUS SCHEDULE**  
**MONDAY TO FRIDAY - EFFECTIVE SEPTEMBER 12, 1973**

ROUTE NO. 1 - TO ISLINGTON SUBWAY STATION  
 VIA EITHER DUNDAS ST. OR Q.E.WAY (EXPRESS)

**WESTBOUND**

A. M.																P. M.												
Islington (Aberfoyle Cres. only)	8:05	8:10	8:15	8:20	8:25*	-	9:05	9:10	9:15	-	9:25	10:05	10:15	10:25	11:45	12:45	1:45	2:40	2:45	3:40	3:45	4:40	4:45	4:55	5:45	6:45	10:45	11:45*
Six Points						8:17	9:22	9:22	9:22	9:22		10:07	10:17	10:27	11:47	12:47	1:47		2:47	3:47	3:47		4:47		5:47	6:47	10:47	11:47*
Neilson Drive						8:22	9:17	9:17	9:27	9:27		10:11	10:21	10:31	11:51	12:51	1:51		2:51	3:51	3:51		4:52		5:51	6:51	10:51	11:51*
Dixie Rd.						8:29	9:24	9:24	9:34	9:34	Q.E. EXP	10:17	10:27	10:37	11:57	12:57	1:57	Q.E. EXP	2:57	Q.E. EXP	3:57	Q.E. EXP	4:59	Q.E. EXP	5:57	6:57	10:57	11:57*
Grenville						8:33	9:28	9:28	9:38	9:38		10:20	10:30	10:40	12:00	1:00	2:00		3:00	4:00	4:00		5:03		6:00	7:00	11:00	12:00*
Highway #10						8:37	9:32	9:32	9:42	9:42		10:23	10:33	10:43	12:03	1:03	2:03		3:03	4:03	4:03		5:07		6:03	7:03	11:03	12:03*
Erindale						8:41	9:36	9:36	9:46	9:46		10:26	10:36	10:46	12:06	1:06	2:06		3:06	4:06	4:06		5:11		6:06	7:06	11:06	12:06*
Stn. Road						8:43	9:38	9:38	9:48	9:48		10:28	10:38	10:48	12:08	1:08	2:08		3:08	4:08	4:08		5:13		6:08	7:08	11:08	12:08*
Er. Woodl's																												
Er. College	8:30	8:35	8:40	8:45	8:50*		8:45	9:30	9:40	9:40	9:50	10:30	10:40	10:50	12:10	1:10	2:10	3:05	3:10	4:05	4:10	5:05	5:15	5:20	6:10	7:10	11:10	12:10*

**EASTBOUND**

	A. M.										P. M.																
Er. College	8:35	8:40	8:45	8:50			8:50	9:35	9:45	9:55	11:15	12:15	1:15	2:10	2:15	3:10	3:15	4:10	4:15	4:20	5:15	5:20	5:25	6:15	7:15	10:15	11:15*
Er. Woodl's							8:52			9:57	11:17	12:17	1:17	2:17			3:17			4:22		5:22	5:27	6:17	7:17	10:17	11:17*
Erindale Stn. Road							8:54			9:59	11:19	12:19	1:19	2:19			3:19			4:24		5:24	5:29	6:19	7:19	10:19	11:19*
Highway #10							8:58			10:02	11:22	12:22	1:22	2:22			3:22			4:28		5:28	5:33	6:22	7:22	10:22	11:22*
Grenville							9:02	Q.E. EXP	Q.E. EXP	10:05	11:25	12:25	1:25	Q.E. EXP	2:25	Q.E. EXP	3:25	Q.E. EXP	Q.E. EXP	4:32	Q.E. EXP	5:32	5:37	6:25	7:25	10:25	11:25*
Dixie Road							9:06			10:08	11:28	12:28	1:28	2:28			3:28			4:36		5:36	5:41	6:28	7:28	10:28	11:28*
Neilson Drive							9:13			10:14	11:34	12:34	1:34	2:34			3:34			4:43		5:43	5:48	6:34	7:34	10:34	11:34*
Six Points							9:18			10:18	11:38	12:38	1:38	2:38			3:38			4:48		5:48	5:53	6:38	7:38	10:38	11:38*
Islington	9:00	9:05	9:10	9:15			9:20	10:00	10:10	10:20	11:40	12:40	1:40	2:35	2:40	3:35	3:40	4:35	4:40	4:50	5:40	5:50	5:55	6:40	7:40	10:40	11:40*

\* NOT ON FRIDAYS

ROUTE NO. 2 - ST. GEORGE SERVICE  
VIA Q.E.WAY

This service is for inter-campus, academic requirements.  
Please commute via Subway and College Buses on Route #1.

<u>WESTBOUND</u>		A.M.					P.M.							
		7:55	8:00	8:10*	10:15	10:20*	11:15	12:15	1:15	2:15	3:15	4:15	6:15	
	Convocation Hall Lv.	8:35	8:40	8:50	10:55	11:00	11:55	12:55	1:55	2:55	3:55	4:55	6:55	
	Erindale College Ar.													
<u>EASTBOUND</u>														
	Erindale College Lv.	7:15	9:15	10:15	11:15			12:15	1:15	2:15	3:15	3:20*	5:10	5:15*
	Convocation Hall Ar.	7:55	9:55	10:55	11:55			12:55	1:55	2:55	3:55	4:00	5:50	6:00

\* NOT ON FRIDAYS

ROUTE NO. 3 - CLARKSON "GO" STATION  
SERVICE VIA ERIN MILLS PARKWAY

		A.M.		NOTICE
Departs "GO" Station		8:20		1. Please refrain from smoking.
Arrives Erindale College		8:35		2. Animals are not permitted on buses.
Departs Erindale College		P.M.		3. Keep your bus clean.
Arrives "GO" Station		5:10		4. Passengers may board and leave buses only at scheduled stop.
		5:25		

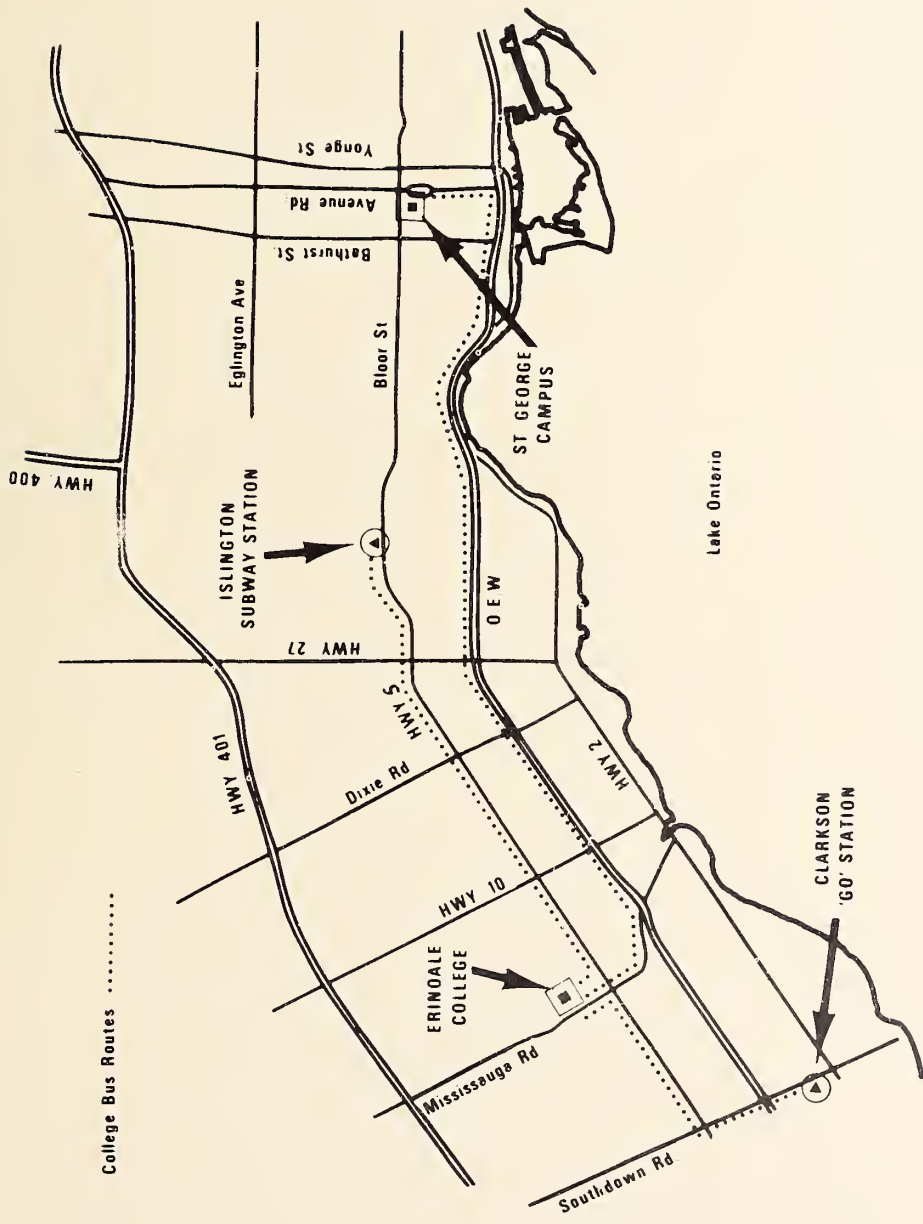
THANK YOU FOR YOUR CO-OPERATION.

NOTE: Request stops at Sheridan  
Mall and Truscott Drive.









College Bus Routes .....

